

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-  
State Lighting Products

Test Report Prepared for  
Cooper Lighting Solutions  
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P532432

Luminaire Tested: **GALN-SA7D-735-U-T3R-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P532432  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-12)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA7D-735-U-T3R-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
ROADWAY OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 43817 lumens  
Efficiency: N/A  
Efficacy: 101.2 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B4 - U0 - G3

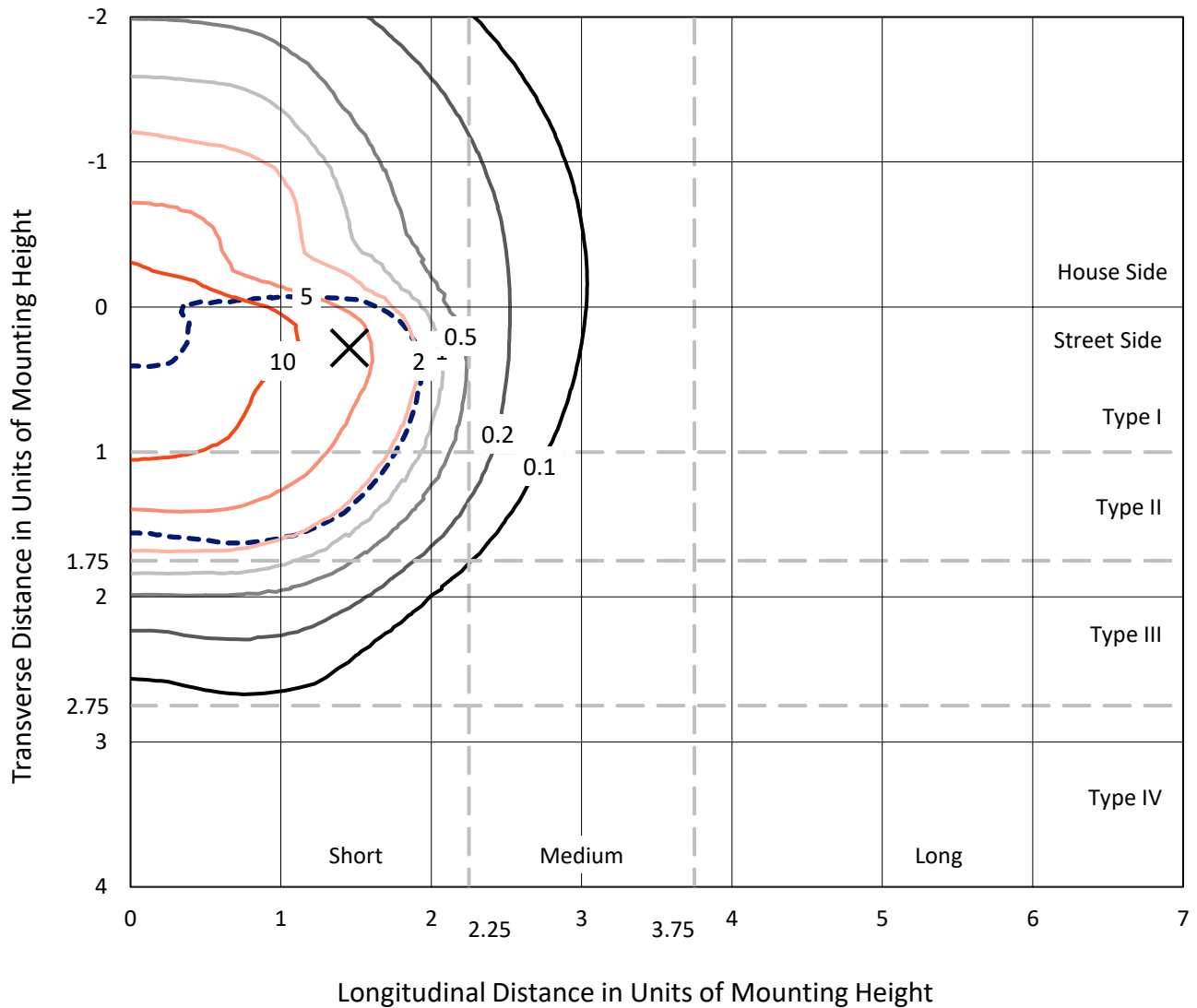
Input Watts (W): 433  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

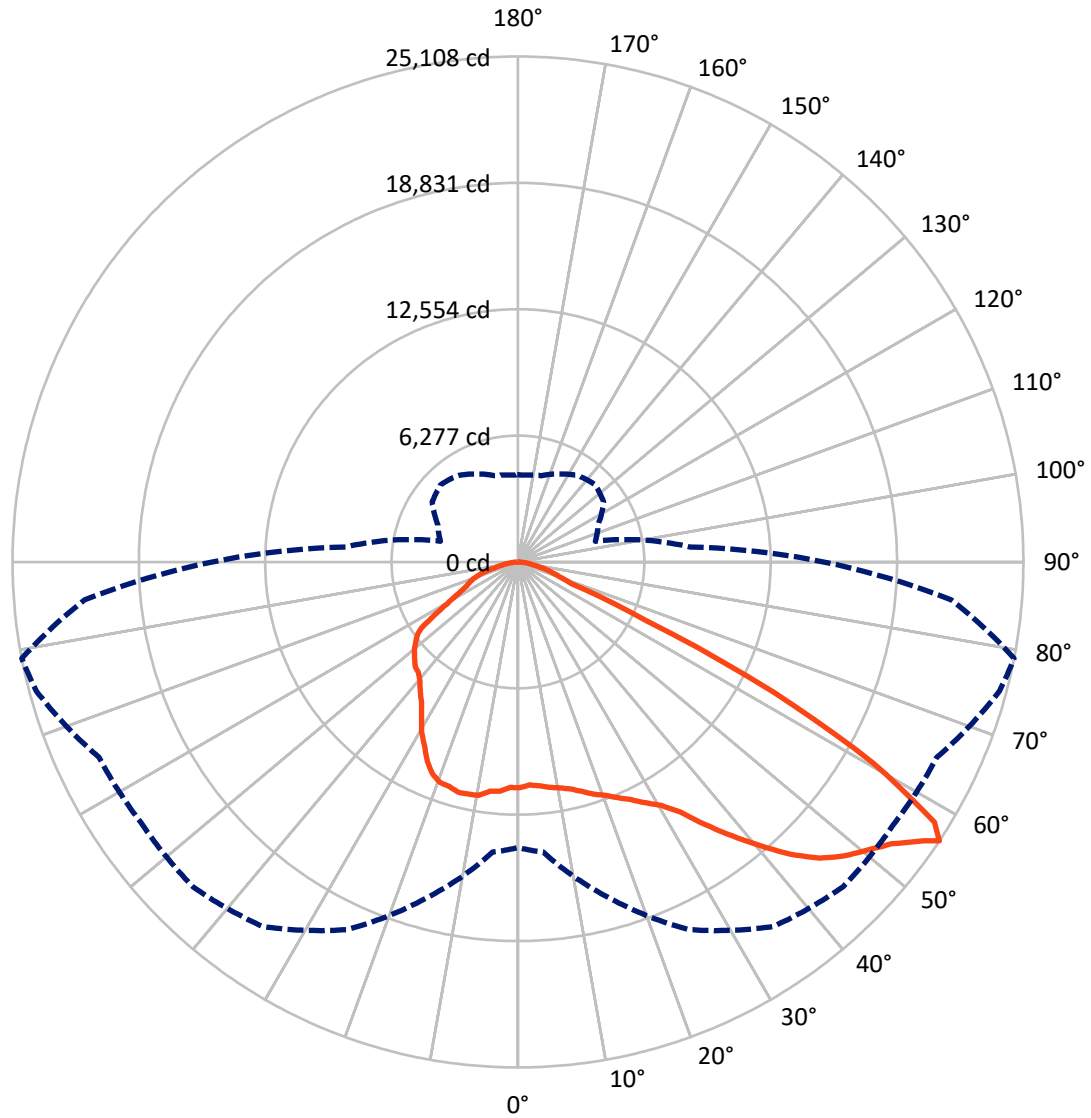
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral      - - - Horizontal Cone Through 56-Deg Vertical

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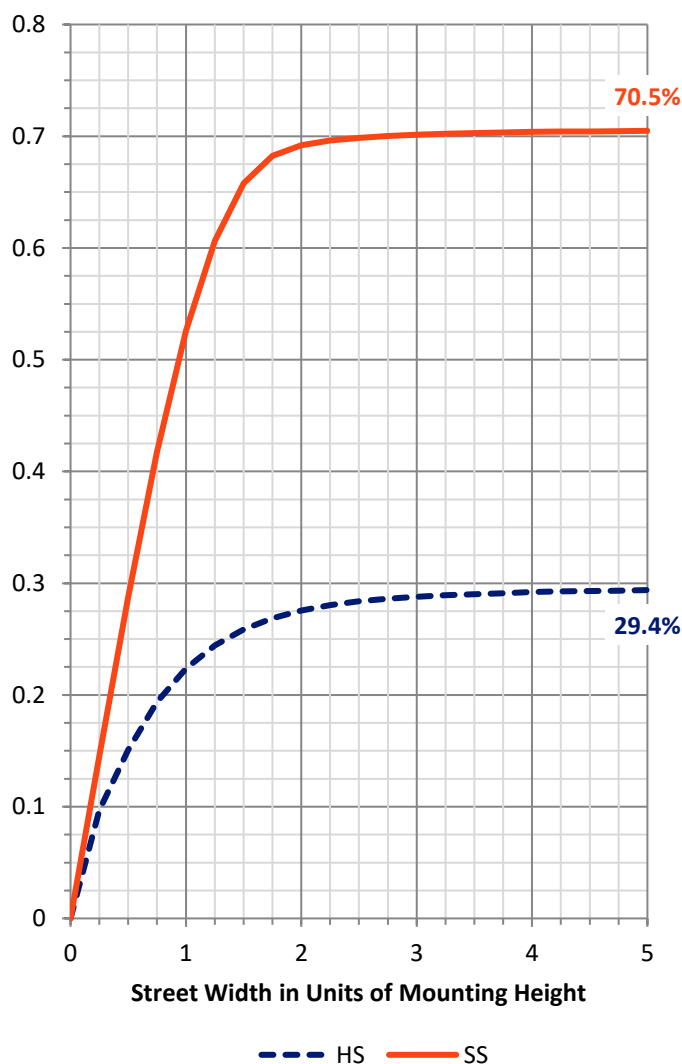
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	12940.1	0.0	12940.1
	% Fixture	29.5	0.0	29.5
<b>Street Side</b>	Lumens	30876.9	0.0	30876.9
	% Fixture	70.5	0.0	70.5
<b>Total</b>	Lumens	43817.0	0.0	43817.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1019.3	2.3
10°-20°	2789.5	6.4
20°-30°	4772.4	10.9
30°-40°	7314.2	16.7
40°-50°	9885.1	22.6
50°-60°	11353.4	25.9
60°-70°	5175.2	11.8
70°-80°	1275.9	2.9
80°-90°	231.9	0.5
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	43817.0	100.0
0°-180°	43817.0	100.0

**Coefficient of Utilization**



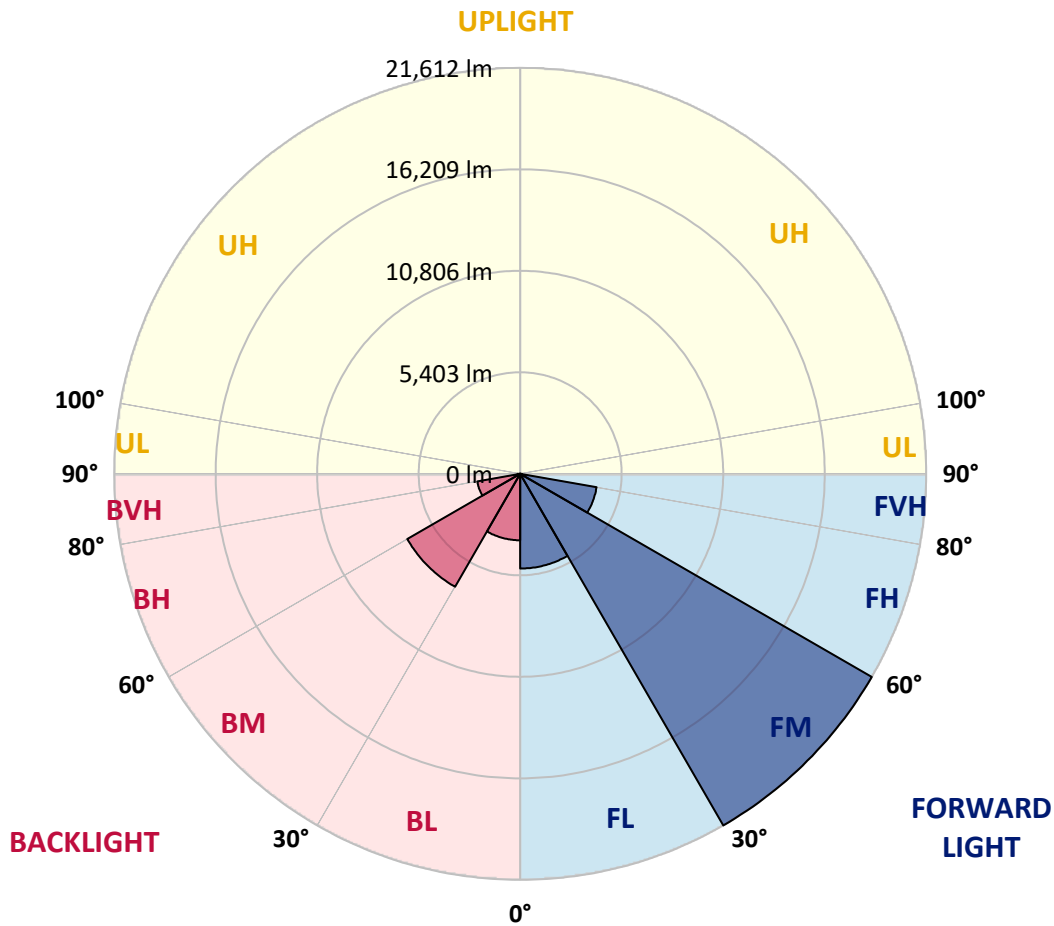
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5041.5	11.5			
FM (30°-60°)	21611.8	49.3			
FH (60°-80°)	4130.9	9.4			G2/5000
FVH (80°-90°)	92.6	0.2			G1/100
BL (0°-30°)	3539.7	8.1	B4/5000		
BM (30°-60°)	6940.9	15.8	B4/8500		
BH (60°-80°)	2320.2	5.3	B3/2500		G3/2500
BVH (80°-90°)	139.3	0.3			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G3**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	11211.0	11211.0	11211.0	11211.0	11211.0	11211.0	11211.0	11211.0	11211.0	11211.0	11211.0
2.5°	10665.2	10637.9	10703.4	10752.6	10812.6	10889.0	10927.2	10949.0	11140.1	11091.0	11238.3
5°	10436.0	10365.0	10414.1	10452.4	10556.1	10648.8	10752.6	10916.3	11091.0	11167.4	11347.5
7.5°	10234.0	10195.8	10184.9	10212.2	10354.1	10474.2	10654.3	10894.5	11178.3	11303.8	11407.5
10°	9901.1	9846.5	9928.4	10108.5	10146.7	10397.8	10605.2	10949.0	11194.7	11413.0	11718.6
12.5°	9753.7	9699.1	9715.5	9819.2	10086.7	10326.8	10572.4	10960.0	11478.5	11565.8	11975.2
15°	9988.4	9933.8	9950.2	9922.9	10179.4	10305.0	10692.5	11178.3	11675.0	11822.3	12259.0
17.5°	10523.3	10528.8	10457.8	10397.8	10337.7	10605.2	10872.6	11309.3	11751.4	12122.5	12450.0
20°	11544.0	11363.9	11222.0	10883.5	10790.8	10905.4	11243.8	11664.1	12062.5	12368.2	12739.3
22.5°	12330.0	12346.3	12144.4	11587.6	11385.7	11434.8	11724.1	12068.0	12504.6	12722.9	13148.7
25°	13470.7	13356.1	13137.8	12695.7	12242.6	12280.8	12493.7	12804.8	12924.9	13077.7	13541.7
27.5°	14513.2	14546.0	14114.8	13700.0	13137.8	13028.6	13410.7	13465.3	13263.3	13552.6	13710.9
30°	15572.1	15544.8	15261.0	14775.2	14223.9	14245.8	14415.0	14147.5	13869.2	14027.4	14136.6
32.5°	16669.2	16358.1	16347.2	15910.5	15490.2	15288.3	15080.9	15211.9	14780.7	14813.4	14709.7
35°	17547.9	17591.6	17340.5	17029.4	16822.0	16467.2	15899.6	16134.3	16052.4	16014.2	15566.6
37.5°	18186.5	18017.3	18142.9	18039.2	17842.7	17400.6	16811.1	17034.9	17073.1	17258.7	16740.1
40°	18710.5	18639.6	18972.5	19027.1	18890.6	17935.5	16876.6	17542.5	18115.6	18519.5	17902.7
42.5°	18961.6	19114.4	19463.8	19884.0	19578.4	18557.7	17215.0	17930.0	19207.2	19845.8	19005.3
45°	19300.0	19103.5	19622.0	20391.6	20397.1	19081.7	17542.5	18454.0	20058.7	20986.6	19758.5
47.5°	18956.1	19054.4	19589.3	20566.3	20817.4	19633.0	18426.7	19196.3	20997.5	21821.7	20457.1
50°	18186.5	18383.0	19360.0	20375.3	21133.9	20217.0	19441.9	19998.7	21865.3	22493.0	20571.8
52.5°	17384.2	17493.4	19021.6	20522.6	21275.9	20970.2	20801.0	21106.7	22924.2	23251.7	20713.7
55°	15200.9	15719.5	17902.7	20457.1	21969.0	22329.3	22198.3	22645.9	24125.0	24452.5	21488.7
56°	14191.2	14464.1	17231.4	20151.5	22105.5	22826.0	22760.5	22962.4	24763.6	25107.5	21608.8
57.5°	12324.5	12346.3	14693.3	18797.9	21592.4	22973.3	22907.8	23066.1	24638.1	24403.4	20555.4
60°	7712.4	8050.8	9999.3	14458.6	18361.2	21314.1	21685.2	20413.5	20773.7	20277.0	15992.4
62.5°	3995.4	3946.2	5239.8	8454.7	12188.0	15261.0	15604.8	15544.8	14988.1	14262.1	10446.9
65°	1992.2	2003.1	2740.0	4186.4	6244.1	7990.7	8951.4	9055.1	7575.9	6970.1	4956.0
67.5°	1446.4	1501.0	1970.4	2559.9	2941.9	3291.3	4033.6	3957.2	2996.5	2849.2	2641.7
70°	1124.4	1173.5	1599.2	1954.0	1773.9	1773.9	1932.2	1997.7	2134.1	2194.2	2265.1
72.5°	818.7	856.9	1222.6	1348.2	1162.6	1249.9	1446.4	1599.2	1741.1	1763.0	1844.9
75°	562.2	594.9	802.3	742.3	698.6	862.4	1058.9	1200.8	1304.5	1359.1	1408.2
77.5°	365.7	376.6	458.5	387.5	447.6	556.7	687.7	807.8	911.5	955.2	966.1
80°	163.7	180.1	196.5	245.6	311.1	398.4	491.2	589.5	655.0	671.4	704.1
82.5°	92.8	92.8	120.1	174.7	229.2	289.3	354.8	425.7	502.1	518.5	513.1
85°	49.1	49.1	71.0	103.7	141.9	169.2	163.7	169.2	180.1	207.4	202.0
87.5°	16.4	16.4	21.8	21.8	27.3	32.7	27.3	38.2	49.1	49.1	49.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	11211.0	11211.0	11211.0	11211.0	11211.0	11211.0	11211.0	11211.0	11211.0	11211.0	11211.0
2.5°	11194.7	11243.8	11178.3	11320.2	11320.2	11292.9	11156.5	11200.1	11232.9	11232.9	11260.2
5°	11407.5	11391.2	11434.8	11265.6	11161.9	11123.7	10899.9	10790.8	10698.0	10692.5	10610.6
7.5°	11527.6	11483.9	11467.6	11342.0	10883.5	10605.2	10124.9	9846.5	9786.5	9573.6	9655.5
10°	11718.6	11800.5	11718.6	11036.4	10397.8	9759.2	9289.8	8858.6	8689.4	8552.9	8471.0
12.5°	12111.6	12073.4	11598.6	10676.1	9781.0	9022.3	8323.7	7870.6	7701.4	7581.4	7570.5
15°	12444.6	12253.5	11527.6	10108.5	8820.4	8012.6	7439.5	7117.4	7041.0	7051.9	7101.1
17.5°	12559.2	12428.2	11156.5	9519.0	8105.3	7155.6	6888.2	6839.1	6910.0	6991.9	7013.7
20°	12739.3	12531.9	11003.6	8716.7	7221.1	6620.7	6604.4	6779.0	6910.0	7030.1	7046.5
22.5°	13115.9	12591.9	10506.9	7958.0	6615.3	6462.4	6620.7	6768.1	6970.1	7068.3	6981.0
25°	13225.1	12461.0	9808.3	7046.5	6233.2	6364.2	6533.4	6735.4	6877.3	6931.8	6970.1
27.5°	13317.9	12259.0	8864.0	6440.6	6113.1	6358.7	6533.4	6702.6	6779.0	6828.1	6871.8
30°	13579.9	12199.0	8045.3	6036.7	6036.7	6249.6	6473.4	6517.0	6620.7	6680.8	6757.2
32.5°	13710.9	11784.1	7204.8	5780.2	5960.3	6304.2	6320.5	6402.4	6407.9	6457.0	6375.1
35°	14054.7	11489.4	6424.2	5594.6	5993.0	6249.6	6331.5	6282.3	6014.9	5883.9	5911.2
37.5°	14305.8	11342.0	5862.1	5572.8	5998.5	6309.6	6353.3	5982.1	5703.8	5485.4	5540.0
40°	14982.6	10976.3	5436.3	5534.6	6047.6	6375.1	6255.0	5851.1	5349.0	5125.2	5087.0
42.5°	15501.1	10714.3	5168.9	5490.9	6085.8	6467.9	6205.9	5589.1	5076.1	4868.7	4923.2
45°	16101.5	10654.3	5027.0	5501.8	6151.3	6517.0	6145.9	5387.2	4841.4	4759.5	4743.1
47.5°	16314.4	10223.1	4874.1	5409.0	6135.0	6500.7	5943.9	5234.4	4754.0	4765.0	4808.6
50°	15959.6	9781.0	4759.5	5218.0	6025.8	6353.3	5627.4	5032.4	4704.9	4841.4	4917.8
52.5°	15506.6	9328.0	4524.8	4961.5	5802.0	6124.0	5480.0	5021.5	4655.8	4612.1	4628.5
55°	15643.1	8956.8	4197.3	4612.1	5441.8	5698.3	5316.2	4917.8	4535.7	4372.0	4426.6
56°	15200.9	8574.7	3984.4	4393.8	5196.2	5425.4	5234.4	4825.0	4437.5	4328.3	4328.3
57.5°	13951.0	7292.1	3706.1	4044.5	4677.6	4950.5	5076.1	4770.4	4328.3	4137.3	4142.7
60°	10288.6	5185.2	3324.0	3564.2	3875.3	4093.6	4677.6	4617.6	4055.4	3924.4	3875.3
62.5°	6342.4	3788.0	3051.1	3143.9	3302.2	3482.3	4082.7	4180.9	3766.1	3624.2	3591.5
65°	3553.3	2898.3	2843.7	2881.9	2958.3	3051.1	3389.5	3607.8	3324.0	3105.7	3094.8
67.5°	2598.1	2592.6	2636.3	2669.0	2701.8	2701.8	2783.7	2871.0	2832.8	2658.1	2641.7
70°	2308.8	2325.2	2357.9	2363.4	2374.3	2336.1	2270.6	2243.3	2287.0	2177.8	2156.0
72.5°	1904.9	1959.5	1997.7	2003.1	1943.1	1894.0	1806.6	1713.9	1681.1	1659.3	1653.8
75°	1462.8	1501.0	1517.4	1511.9	1490.1	1419.1	1315.4	1222.6	1162.6	1097.1	1129.8
77.5°	987.9	1042.5	1069.8	1069.8	1037.0	927.9	878.8	807.8	747.8	676.8	687.7
80°	693.2	731.4	775.1	769.6	715.0	660.4	589.5	524.0	474.9	420.3	414.8
82.5°	518.5	540.4	562.2	551.3	513.1	458.5	409.4	349.3	294.7	256.5	256.5
85°	185.6	202.0	245.6	256.5	278.4	278.4	234.7	196.5	158.3	131.0	131.0
87.5°	54.6	54.6	60.0	60.0	54.6	60.0	49.1	54.6	60.0	38.2	38.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)