

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: P532426

Luminaire Tested: **GALN-SA7D-735-U-T2-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P532426  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-14)  
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-T2-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

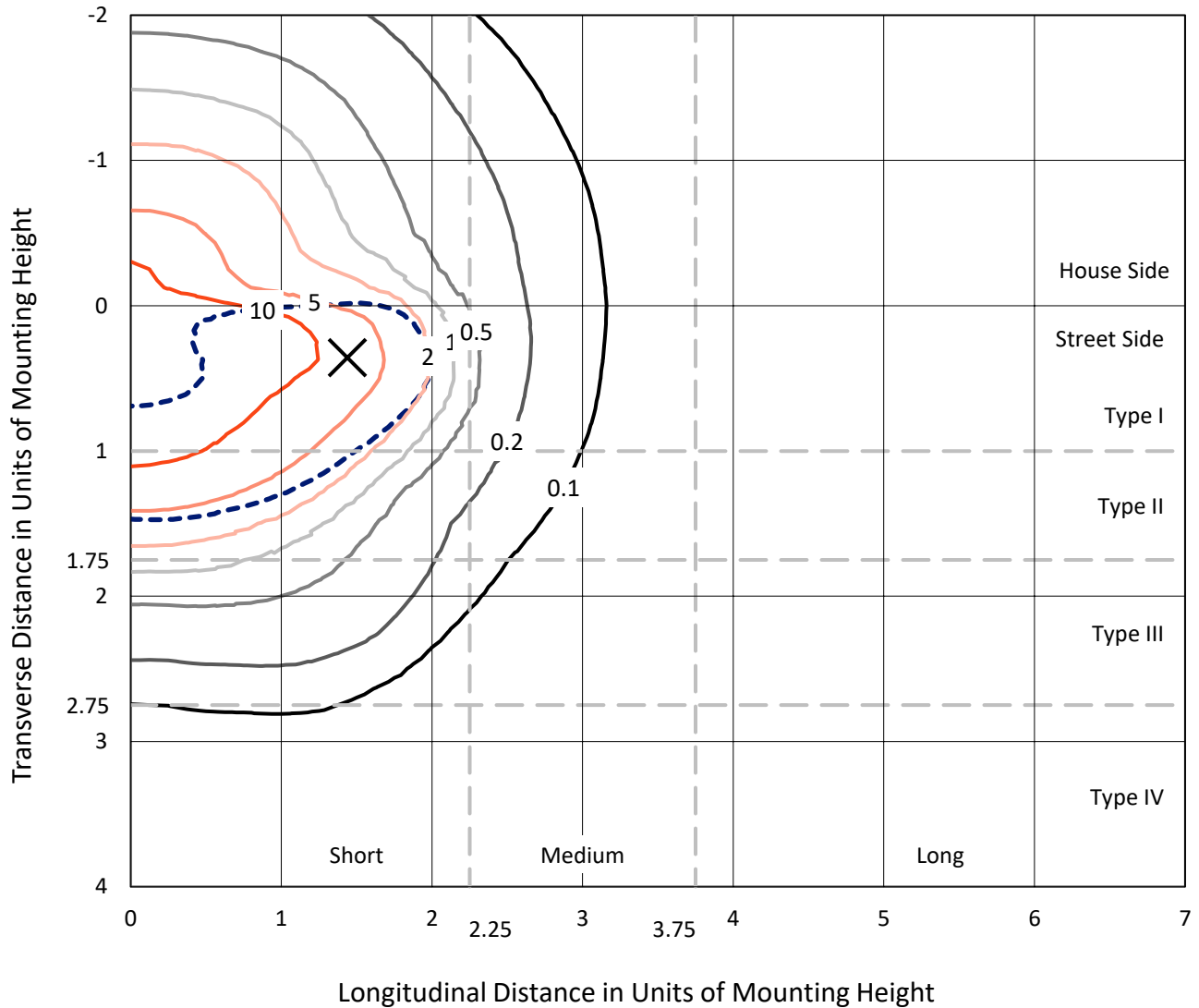
Lumens per Lamp: N/A  
Luminaire Lumens: 42102 lumens  
Efficiency: N/A  
Efficacy: 97.2 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B4 - U0 - G3  
  
Input Watts (W): 433  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

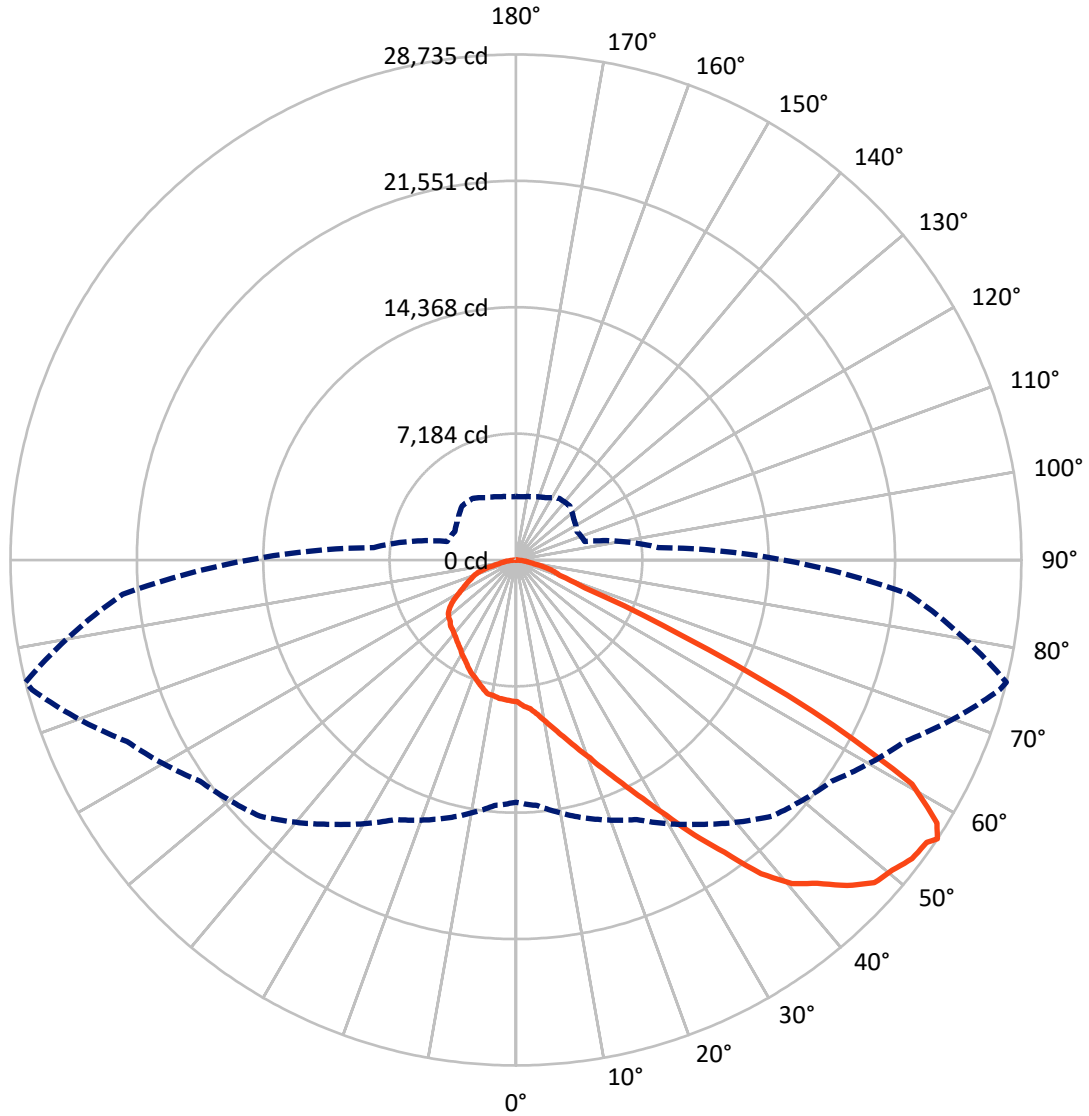
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17.9 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral      - - - Horizontal Cone Through 56-Deg Vertical

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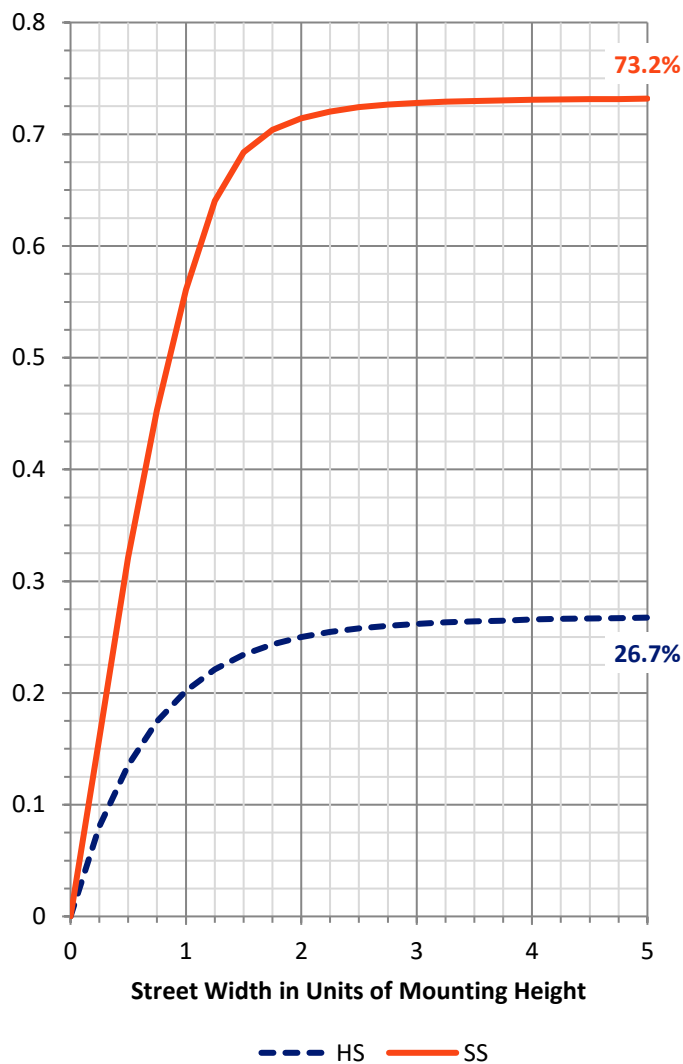
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	11320.0	0.0	11320.0
	% Fixture	26.9	0.0	26.9
<b>Street Side</b>	Lumens	30782.0	0.0	30782.0
	% Fixture	73.1	0.0	73.1
<b>Total</b>	Lumens	42102.0	0.0	42102.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	798.9	1.9
10°-20°	2509.5	6.0
20°-30°	4388.9	10.4
30°-40°	6871.7	16.3
40°-50°	9996.3	23.7
50°-60°	10986.6	26.1
60°-70°	4903.9	11.6
70°-80°	1416.4	3.4
80°-90°	229.8	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°	42102.0	100.0
0°-180°	42102.0	100.0

**Coefficient of Utilization**

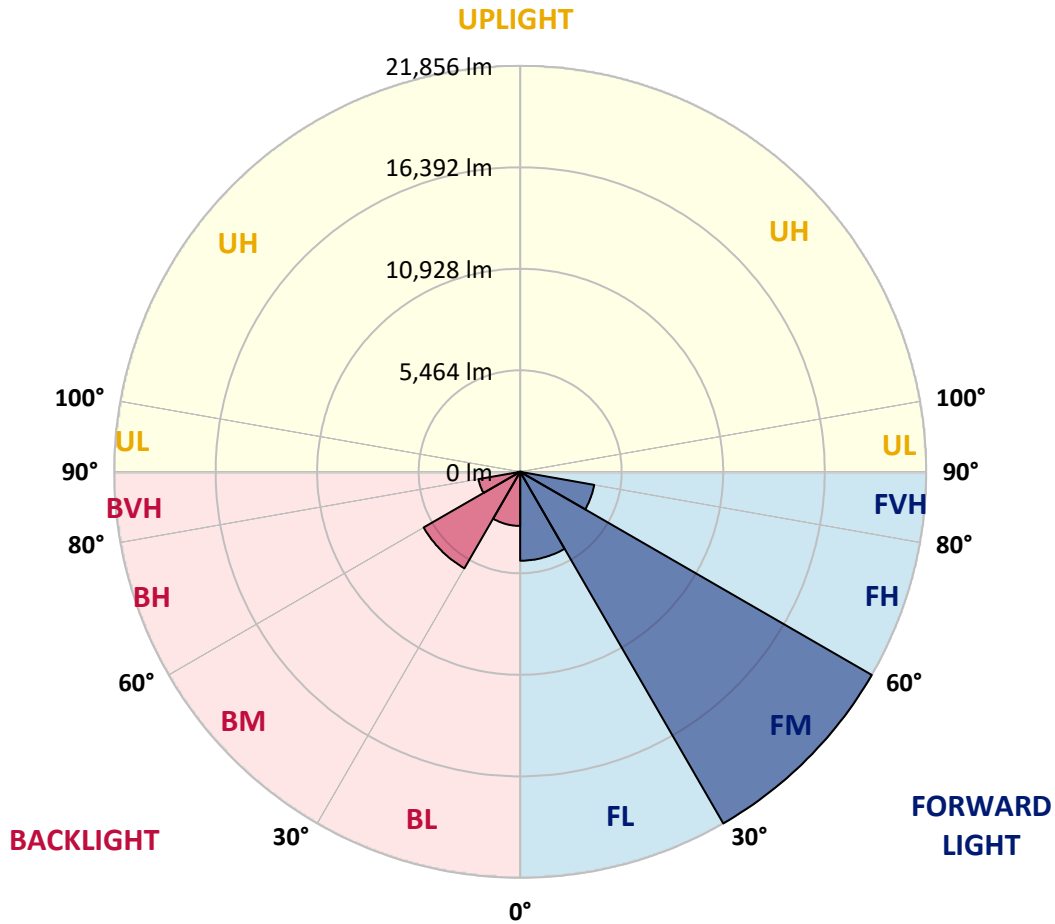


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4784.4	11.4			
FM (30°-60°)	21855.9	51.9			
FH (60°-80°)	4042.8	9.6			G2/5000
FVH (80°-90°)	98.9	0.2			G1/100
BL (0°-30°)	2912.8	6.9	B4/5000		
BM (30°-60°)	5998.7	14.2	B4/8500		
BH (60°-80°)	2277.6	5.4	B3/2500		G3/2500
BVH (80°-90°)	130.9	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°	76°	85°
0°	8055.7	8055.7	8055.7	8055.7	8055.7	8055.7	8055.7	8055.7	8055.7	8055.7	8055.7
2.5°	8874.3	8732.4	8721.5	8683.3	8705.2	8606.9	8503.2	8366.8	8224.9	8312.2	8104.8
5°	9496.5	9305.5	9381.9	9250.9	9267.3	9136.3	8923.5	8765.2	8590.5	8486.8	8339.5
7.5°	9714.8	9731.2	9785.8	9764.0	9654.8	9654.8	9512.9	9234.6	8928.9	8868.9	8623.3
10°	10009.6	10015.0	9955.0	9971.4	10124.2	10053.2	9927.7	9807.6	9414.7	9343.7	8907.1
12.5°	10113.3	10015.0	10113.3	10200.6	10380.7	10478.9	10451.6	10364.3	9944.1	9894.9	9256.4
15°	10129.6	10069.6	10151.5	10347.9	10506.2	10921.0	11128.4	11068.4	10511.7	10517.1	9649.3
17.5°	10053.2	10135.1	10167.8	10337.0	10702.7	11090.2	11690.6	11772.4	11314.0	11243.0	10146.0
20°	10156.9	10096.9	10140.5	10293.4	10779.1	11384.9	12170.8	12711.2	12067.1	12018.0	10659.0
22.5°	10555.3	10473.5	10462.6	10560.8	10910.1	11537.7	12678.4	13649.9	12984.0	13011.3	11297.6
25°	10866.4	10910.1	10871.9	10866.4	11084.7	11767.0	13349.7	14768.7	14228.4	14070.1	12050.8
27.5°	11401.3	11505.0	11428.6	11532.3	11483.2	12110.8	13830.0	16007.7	15571.0	15358.2	12733.0
30°	12143.6	12198.1	12127.2	12127.2	11979.8	12591.1	14266.6	17301.1	17121.0	16831.8	13535.3
32.5°	13120.5	13202.4	13060.5	12978.6	12956.8	13306.1	15052.5	18578.3	18883.9	18638.3	14599.6
35°	14414.0	14364.9	14195.7	14119.3	13824.5	14403.1	16220.5	20046.4	20848.7	20412.1	15887.6
37.5°	15554.7	15478.3	15467.3	15041.6	15112.6	15587.4	17213.8	21159.8	22753.5	22627.9	17246.6
40°	16618.9	16689.9	16804.5	16564.3	16455.2	16979.1	18370.9	22011.2	24232.5	24183.4	18294.5
42.5°	17759.6	17694.1	17896.0	17694.1	17530.4	18272.6	19626.2	22600.6	25531.5	25127.6	19391.5
45°	19413.3	19205.9	19276.9	19293.2	19173.2	19446.1	20144.7	23026.4	26442.9	26399.3	20193.8
47.5°	20794.1	20799.6	20679.5	20586.7	20221.1	20493.9	20723.2	23293.8	27490.8	27419.9	20504.9
50°	21307.2	21236.2	21585.5	21787.4	21809.3	21252.6	21176.2	23441.1	28042.1	27731.0	20816.0
52.5°	19462.4	19527.9	20079.2	21279.9	21973.0	22033.0	21705.6	23746.8	28265.8	28200.3	21067.0
55°	15663.8	15980.4	16886.4	18272.6	19915.4	21721.9	22278.6	24063.3	28385.9	28331.3	22180.4
56°	13770.0	14015.6	15194.4	16280.5	18343.6	20592.2	21918.4	24401.7	28478.7	28735.2	22442.4
57.5°	11084.7	11368.5	12214.5	13448.0	15882.1	18441.8	20925.1	23986.9	28118.5	28216.7	22633.4
60°	6931.4	6958.7	7973.8	8787.0	10500.8	13000.4	15969.5	20870.5	26022.7	25880.8	20330.2
62.5°	4546.3	4551.8	5474.1	6140.0	6920.5	7493.5	9398.3	13840.9	19200.5	18949.4	14474.0
65°	3192.8	3263.7	3978.7	4868.3	5184.9	4884.7	4824.7	7297.0	10724.5	10364.3	7777.3
67.5°	2335.9	2341.4	2974.5	3929.6	4388.1	3716.7	3018.2	3563.9	4246.1	4235.2	3602.1
70°	1544.6	1610.0	2095.8	2936.3	3460.2	2985.4	2466.9	2548.8	2701.6	2701.6	2679.8
72.5°	900.5	960.6	1282.6	1861.1	1943.0	1866.6	1953.9	2183.1	2281.4	2275.9	2248.6
75°	513.0	540.3	611.3	775.0	966.0	1140.7	1435.4	1653.7	1751.9	1812.0	1741.0
77.5°	300.2	316.6	360.2	442.1	502.1	616.7	780.5	933.3	1064.3	1047.9	1058.8
80°	158.3	158.3	201.9	262.0	349.3	436.6	518.5	605.8	676.8	693.1	709.5
82.5°	92.8	98.2	131.0	191.0	251.1	311.1	398.4	458.5	523.9	529.4	540.3
85°	49.1	54.6	81.9	125.5	169.2	191.0	196.5	185.6	201.9	191.0	218.3
87.5°	16.4	16.4	27.3	21.8	21.8	27.3	32.7	32.7	43.7	43.7	43.7
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°	8055.7	8055.7	8055.7	8055.7	8055.7	8055.7	8055.7	8055.7	8055.7	8055.7	8055.7
2.5°	8099.3	8099.3	8006.6	7831.9	7804.6	7733.7	7668.2	7662.7	7613.6	7569.9	7548.1
5°	8252.2	8083.0	7946.5	7788.2	7602.7	7515.4	7417.1	7308.0	7264.3	7308.0	7302.5
7.5°	8426.8	8284.9	7875.6	7580.9	7368.0	7280.7	7171.5	7056.9	7067.8	7067.8	6991.4
10°	8596.0	8405.0	7750.0	7373.5	7062.4	6996.9	6936.8	6980.5	7035.1	7046.0	6996.9
12.5°	8879.8	8448.6	7690.0	7166.1	6969.6	6827.7	6865.9	6986.0	7100.6	7067.8	7106.0
15°	9092.7	8486.8	7417.1	6953.2	6707.6	6773.1	6909.5	6991.4	7182.4	7160.6	7198.8
17.5°	9300.0	8508.7	7149.7	6669.4	6565.7	6745.8	6849.5	7084.2	7144.2	7275.2	7324.3
20°	9725.8	8552.3	6876.8	6494.8	6462.0	6669.4	6849.5	6958.7	7089.7	7204.3	7204.3
22.5°	9944.1	8530.5	6696.7	6265.5	6369.2	6500.2	6663.9	6849.5	6849.5	6958.7	6964.1
25°	10217.0	8443.2	6412.9	6156.4	6232.8	6358.3	6543.9	6478.4	6549.3	6549.3	6636.7
27.5°	10528.0	8257.6	6167.3	5959.9	6112.7	6249.2	6276.4	6232.8	6150.9	6140.0	6107.3
30°	10779.1	8028.4	5987.2	5894.4	6019.9	6096.3	6009.0	5916.2	5774.3	5763.4	5687.0
32.5°	11122.9	7744.6	5763.4	5730.7	5872.6	5878.0	5850.7	5708.8	5501.4	5414.1	5326.8
35°	11701.5	7580.9	5594.2	5643.3	5687.0	5670.6	5621.5	5468.7	5261.3	5223.1	5190.3
37.5°	12127.2	7460.8	5419.6	5479.6	5517.8	5539.6	5392.3	5223.1	5228.5	5152.1	5130.3
40°	12607.5	7384.4	5277.7	5305.0	5310.4	5381.4	5201.3	5119.4	5157.6	5108.5	5141.2
42.5°	13224.2	7406.2	5130.3	5108.5	5212.2	5184.9	5097.6	4988.4	5010.2	4862.9	4884.7
45°	13551.7	7553.6	5043.0	4944.7	5059.4	5053.9	4939.3	4835.6	4704.6	4420.8	4431.7
47.5°	13770.0	7591.8	4835.6	4770.1	4890.2	4961.1	4830.1	4590.0	4404.4	4202.5	4153.4
50°	13993.7	7662.7	4737.3	4600.9	4650.0	4819.2	4655.5	4426.3	4246.1	4066.0	4093.3
52.5°	14190.2	7799.2	4546.3	4344.4	4431.7	4617.3	4530.0	4251.6	4055.1	3907.8	3864.1
55°	15063.5	8104.8	4224.3	3962.3	4169.7	4404.4	4355.3	4016.9	3804.1	3727.7	3716.7
56°	15199.9	8115.7	4055.1	3831.4	4022.4	4333.5	4273.4	3913.2	3722.2	3602.1	3607.6
57.5°	15221.7	7984.7	3815.0	3711.3	3875.0	4229.8	4153.4	3831.4	3569.4	3460.2	3427.5
60°	13393.4	6232.8	3514.8	3449.3	3640.3	3913.2	3885.9	3607.6	3312.9	3187.3	3247.4
62.5°	9130.9	4568.2	3280.1	3269.2	3367.4	3634.9	3563.9	3312.9	3067.3	2985.4	2947.2
65°	5315.9	3465.7	3050.9	3007.2	3089.1	3231.0	3280.1	3018.2	2761.6	2707.1	2690.7
67.5°	3138.2	2865.3	2756.2	2685.2	2657.9	2745.3	2783.5	2630.6	2374.1	2297.7	2363.2
70°	2625.2	2548.8	2554.2	2434.2	2368.7	2308.6	2275.9	2139.4	1926.6	1828.4	1801.1
72.5°	2265.0	2232.2	2210.4	2101.2	2041.2	1904.8	1762.9	1626.4	1468.1	1386.3	1391.7
75°	1730.1	1719.2	1730.1	1675.5	1571.8	1462.7	1331.7	1157.0	1037.0	933.3	955.1
77.5°	1031.5	1064.3	1080.6	1058.8	1015.1	916.9	835.0	720.4	605.8	523.9	513.0
80°	709.5	736.8	764.1	736.8	693.1	622.2	534.9	447.5	365.7	322.0	311.1
82.5°	540.3	567.6	584.0	556.7	502.1	425.7	365.7	305.6	240.1	196.5	185.6
85°	196.5	223.8	218.3	262.0	283.8	272.9	234.7	180.1	136.4	98.2	92.8
87.5°	54.6	49.1	54.6	54.6	54.6	49.1	43.7	43.7	43.7	27.3	21.8
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)