

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: P532144

Luminaire Tested: **GALN-SA7C-727-U-T3-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P532144  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-16)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA7C-727-U-T3-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 34916 lumens  
Efficiency: N/A  
Efficacy: 92.6 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

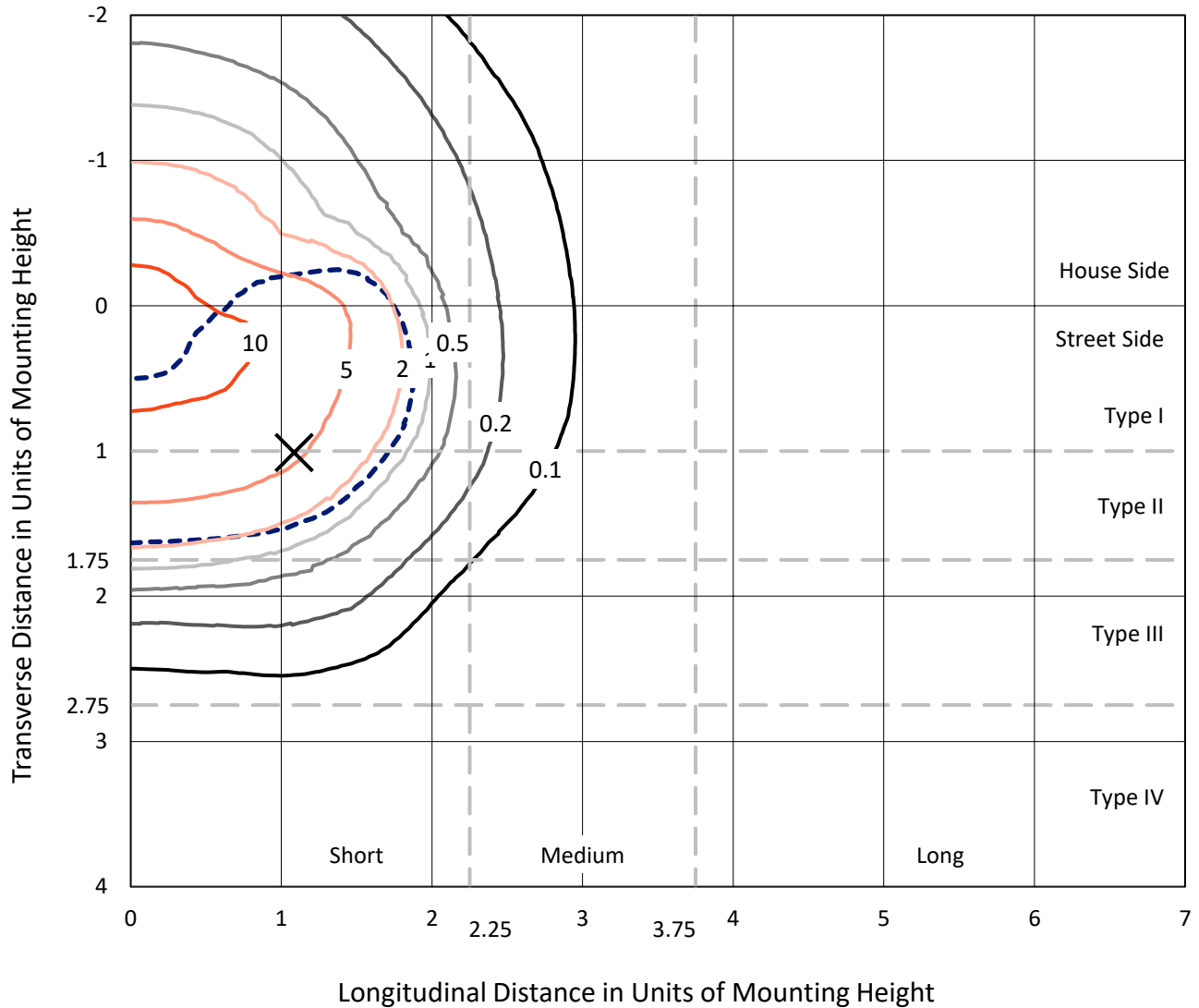
Input Watts (W): 377  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P532144  
 CATALOG NUMBER: GALN-SA7C-727-U-T3-GRSWH

### Iso-Footcandle Lines of Horizontal Illumination

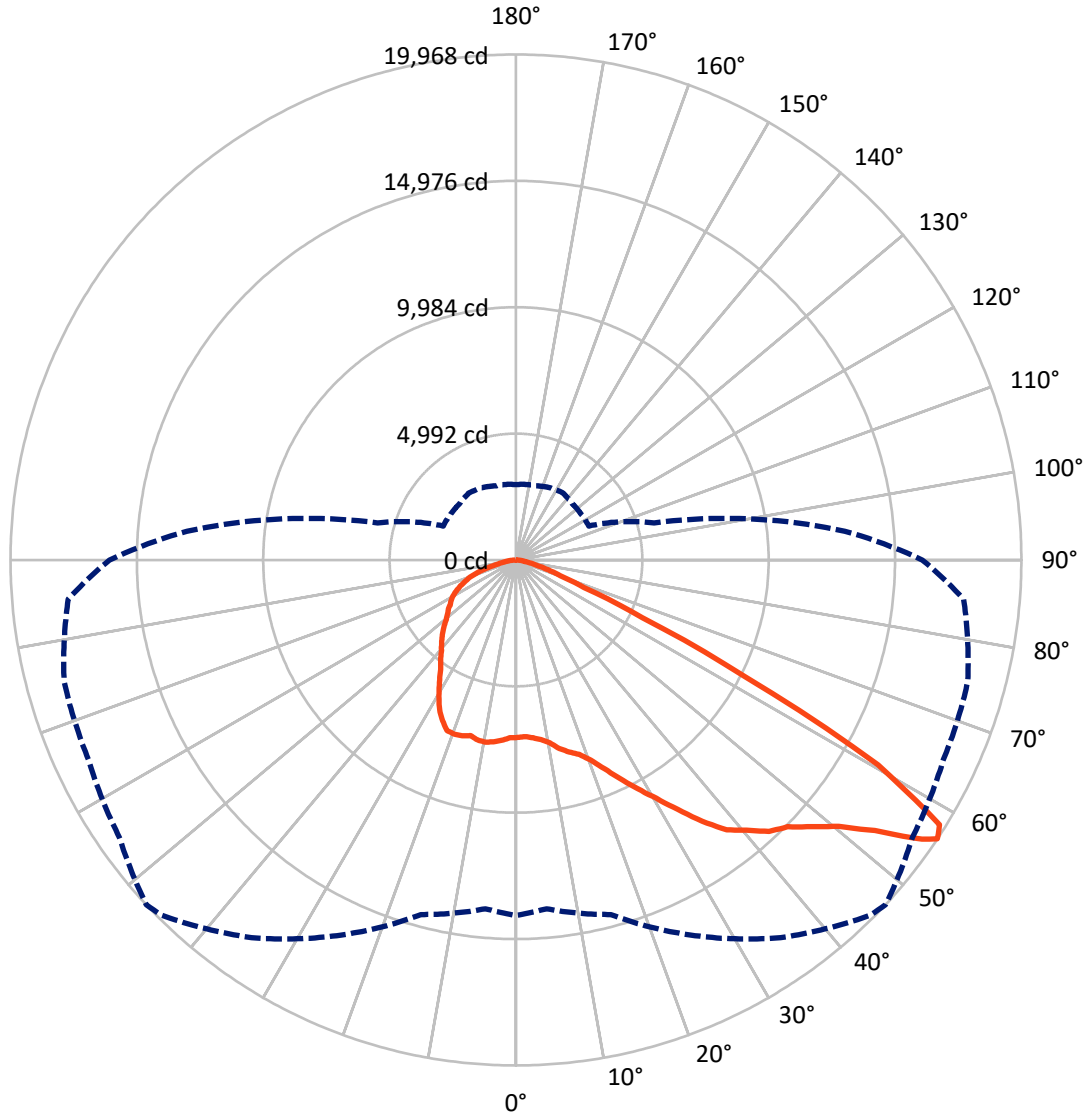
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.7 fc  
 Type II - Short - N/A

REPORT NUMBER: P532144  
CATALOG NUMBER: GALN-SA7C-727-U-T3-GRSWH

### Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral      - - - Horizontal Cone Through 56-Deg Vertical

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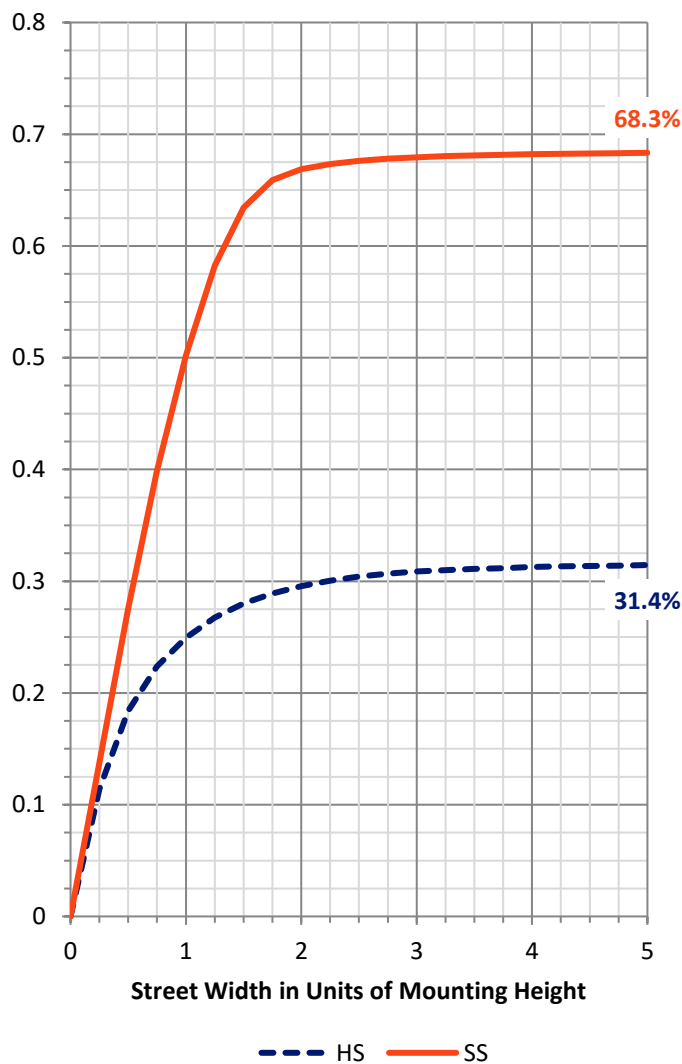
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	11064.5	0.0	11064.5
	% Fixture	31.7	0.0	31.7
<b>Street Side</b>	Lumens	23851.6	0.0	23851.6
	% Fixture	68.3	0.0	68.3
<b>Total</b>	Lumens	34916.0	0.0	34916.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	683.4	2.0
10°-20°	2155.7	6.2
20°-30°	3810.8	10.9
30°-40°	5723.7	16.4
40°-50°	7855.2	22.5
50°-60°	9358.4	26.8
60°-70°	4004.8	11.5
70°-80°	1133.4	3.2
80°-90°	190.7	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°	34916.0	100.0
0°-180°	34916.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P532144

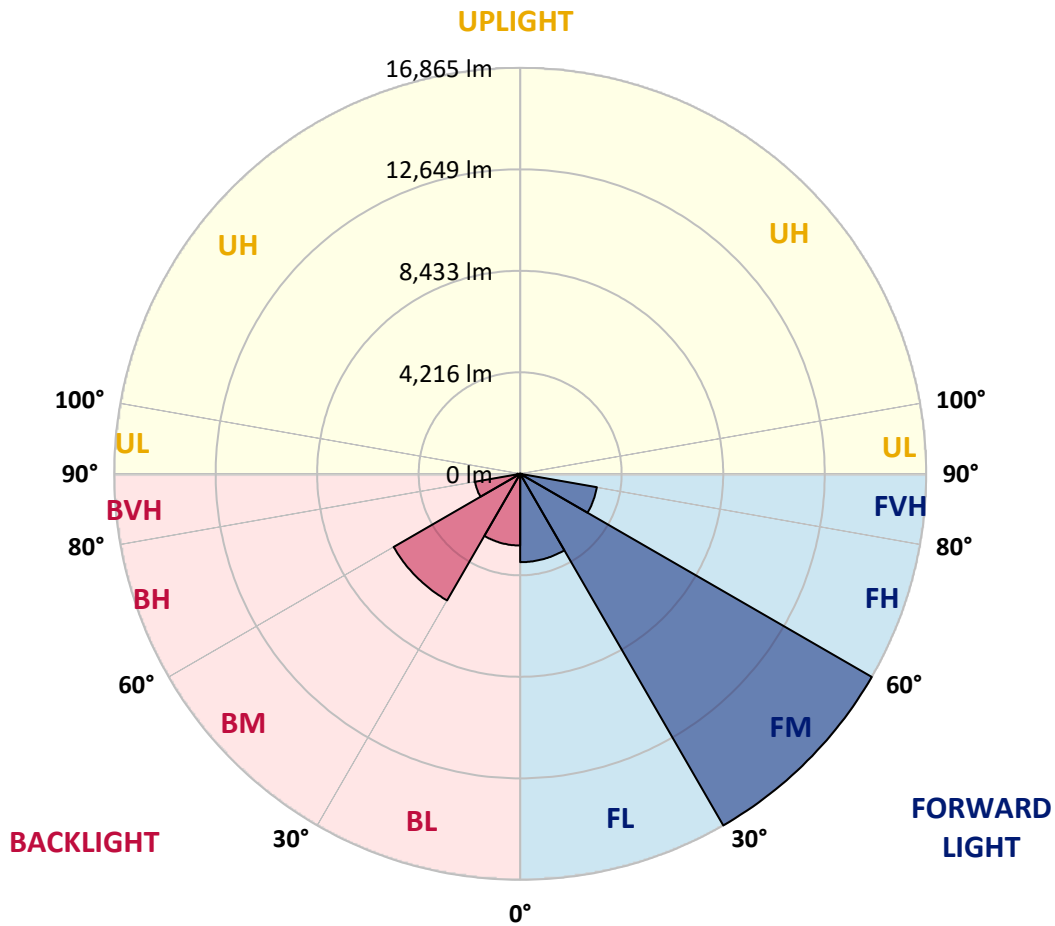
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3670.9	10.5			
FM (30°-60°)	16865.2	48.3			
FH (60°-80°)	3234.5	9.3			G2/5000
FVH (80°-90°)	81.0	0.2			G1/100
BL (0°-30°)	2979.0	8.5	B4/5000		
BM (30°-60°)	6072.0	17.4	B4/8500		
BH (60°-80°)	1903.7	5.5	B3/2500		G3/2500
BVH (80°-90°)	109.8	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°	47°	55°	65°	75°	85°
0°	7013.6	7013.6	7013.6	7013.6	7013.6	7013.6	7013.6	7013.6	7013.6	7013.6	7013.6
2.5°	6986.8	6973.5	6964.6	7035.8	7009.1	7013.6	6986.8	7013.6	7031.4	6991.3	7049.2
5°	6973.5	7013.6	6977.9	7000.2	7058.1	7040.3	7058.1	7111.5	7098.2	7084.8	7067.0
7.5°	7098.2	7102.6	7129.3	7138.2	7156.1	7138.2	7165.0	7214.0	7200.6	7124.9	7133.8
10°	7276.3	7285.2	7289.7	7338.6	7369.8	7374.3	7343.1	7298.6	7294.1	7396.5	7325.3
12.5°	7481.1	7458.9	7512.3	7530.1	7565.7	7605.8	7645.9	7552.4	7610.3	7614.7	7530.1
15°	7779.5	7801.8	7739.4	7739.4	7752.8	7757.2	7868.6	7824.0	7815.1	7766.1	7801.8
17.5°	8224.8	8073.4	8068.9	8006.6	7997.7	8033.3	8073.4	8109.0	8229.2	8131.3	7939.8
20°	8549.9	8585.5	8456.4	8380.7	8394.0	8474.2	8434.1	8594.4	8679.0	8518.7	8331.7
22.5°	9124.3	9004.1	9035.3	8866.0	8879.4	8964.0	8959.5	9124.3	9173.3	8919.5	8647.8
25°	9511.7	9480.6	9507.3	9373.7	9391.5	9458.3	9565.2	9836.8	9756.6	9476.1	8848.2
27.5°	10077.3	10014.9	9992.7	9943.7	9925.9	10104.0	10228.7	10518.1	10460.2	10050.5	9204.5
30°	10656.2	10616.1	10638.4	10438.0	10509.2	10887.7	10923.3	11319.7	11293.0	10571.6	9600.8
32.5°	11056.9	11079.2	11119.3	11008.0	11324.1	11626.9	11747.2	12196.9	12219.2	11466.6	10366.7
35°	11702.6	11626.9	11649.2	11778.3	11925.3	12477.5	12673.4	12971.8	13158.8	12406.2	11101.5
37.5°	12107.9	12188.0	12094.5	12299.3	12682.3	13345.8	13523.9	13831.2	14027.1	13332.5	12103.4
40°	12740.2	12611.1	12677.9	12824.8	13216.7	14080.6	14031.6	14347.7	14410.1	14120.6	13038.5
42.5°	13421.5	13359.2	13265.7	13599.6	13929.2	14557.0	14655.0	14508.1	14824.2	14891.0	14374.5
45°	14236.4	14312.1	14325.5	14334.4	14623.8	15171.6	15038.0	14908.8	15274.0	15759.4	15202.7
47.5°	14993.4	14753.0	14926.6	15167.1	15576.8	15581.2	15737.1	15429.8	15817.3	16249.2	15950.8
50°	15247.3	15131.5	15363.0	15817.3	16449.6	16516.4	16534.2	16097.8	16298.2	16641.1	16209.1
52.5°	15149.3	15109.2	15701.5	16405.1	17331.3	17669.7	17758.8	17220.0	17331.3	17175.4	16779.1
55°	14681.7	14802.0	15398.7	16832.6	18253.1	19299.5	19468.8	18787.4	18079.4	18199.6	17763.2
56°	14040.5	13831.2	14499.2	16347.2	18213.0	19829.5	19967.5	19117.0	18636.0	18480.2	17754.3
57.5°	11911.9	11640.3	12517.5	14708.4	17202.2	19629.1	19731.5	19255.0	18542.5	18226.4	16458.5
60°	6973.5	7107.1	8220.3	10144.1	13270.1	16093.3	16436.2	16783.6	16307.1	14891.0	12250.4
62.5°	3366.5	3281.9	4079.0	5815.7	8086.8	10273.2	10170.8	11146.0	11680.4	10580.5	7735.0
65°	1763.4	1754.5	2226.5	3175.0	4444.2	5397.1	5490.6	6016.1	6750.8	5450.5	3927.6
67.5°	1295.8	1331.5	1567.5	2231.0	2858.9	2916.8	2903.4	3166.1	3237.4	2738.6	2413.6
70°	1015.3	1033.1	1206.8	1696.6	2128.6	1905.9	1865.8	1897.0	2106.3	2195.4	2088.5
72.5°	734.8	752.6	899.5	1144.4	1331.5	1300.3	1327.0	1500.7	1759.0	1852.5	1741.1
75°	489.8	503.2	583.4	699.1	788.2	850.5	899.5	1099.9	1340.4	1393.8	1340.4
77.5°	338.4	351.8	405.2	494.3	503.2	543.3	561.1	654.6	801.6	868.3	832.7
80°	191.5	191.5	218.2	253.8	311.7	365.2	374.1	449.8	516.6	561.1	570.0
82.5°	89.1	93.5	115.8	155.9	204.8	253.8	262.7	311.7	360.7	405.2	418.6
85°	44.5	49.0	66.8	93.5	124.7	151.4	147.0	151.4	160.3	151.4	155.9
87.5°	13.4	13.4	17.8	22.3	17.8	22.3	22.3	26.7	31.2	35.6	40.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P532144

CATALOG NUMBER: GALN-SA7C-727-U-T3-GRSWH

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	7013.6	7013.6	7013.6	7013.6	7013.6	7013.6	7013.6	7013.6	7013.6	7013.6	7013.6
2.5°	7053.6	7067.0	6977.9	7062.5	7031.4	7026.9	7089.3	7080.4	7102.6	7093.7	7040.3
5°	7058.1	7026.9	7120.4	7035.8	7075.9	7160.5	7102.6	7236.2	7169.4	7214.0	7116.0
7.5°	7196.1	7205.0	7187.2	7222.9	7205.0	7245.1	7214.0	7245.1	7191.7	7196.1	7285.2
10°	7316.4	7289.7	7320.8	7276.3	7307.5	7294.1	7222.9	7200.6	7218.4	7196.1	7254.0
12.5°	7539.0	7490.0	7467.8	7414.3	7378.7	7245.1	7133.8	7071.5	7156.1	7169.4	7142.7
15°	7766.1	7770.6	7668.2	7547.9	7325.3	7124.9	7151.6	7173.9	7173.9	7209.5	7142.7
17.5°	7908.6	7908.6	7815.1	7574.6	7347.5	7231.8	7205.0	7133.8	7071.5	7062.5	7058.1
20°	8158.0	8082.3	7868.6	7570.2	7338.6	7285.2	7084.8	6915.6	6786.5	6741.9	6737.5
22.5°	8443.0	8251.5	7953.2	7579.1	7325.3	7249.6	6875.5	6621.7	6390.1	6292.2	6305.5
25°	8705.7	8398.5	8002.1	7539.0	7276.3	6911.1	6492.6	6140.8	5900.3	5820.1	5780.1
27.5°	8888.3	8554.3	8002.1	7574.6	7093.7	6532.6	6105.1	5655.4	5446.1	5392.7	5401.6
30°	9133.2	8750.3	8140.2	7498.9	6728.6	6042.8	5530.7	5236.8	5112.1	5067.6	5098.7
32.5°	9707.7	9262.4	8331.7	7316.4	6296.6	5553.0	5138.8	4974.1	4791.5	4702.4	4671.3
35°	10331.1	9747.7	8518.7	7009.1	5811.2	5107.7	4849.4	4698.0	4479.8	4381.8	4399.6
37.5°	11212.8	10371.2	8532.1	6501.5	5285.8	4858.3	4622.3	4386.3	4208.1	4056.7	4012.2
40°	12401.8	11221.7	8500.9	5967.1	4862.7	4564.4	4390.7	4096.8	3896.4	3789.6	3811.8
42.5°	13448.2	12219.2	8371.7	5361.5	4479.8	4364.0	4168.1	3878.6	3682.7	3571.4	3562.4
45°	14329.9	12953.9	8126.8	4844.9	4159.2	4141.3	3914.2	3691.6	3535.7	3433.3	3477.8
47.5°	15144.8	13546.2	7757.2	4328.4	3865.3	3900.9	3682.7	3544.6	3446.7	3353.2	3348.7
50°	15438.7	13537.3	7432.2	3900.9	3629.2	3611.4	3602.5	3455.6	3353.2	3273.0	3308.6
52.5°	15928.6	13688.7	7080.4	3607.0	3415.5	3419.9	3451.1	3344.2	3228.5	3179.5	3224.0
55°	16632.2	13711.0	6305.5	3264.1	3237.4	3268.5	3268.5	3197.3	3099.3	3059.2	3037.0
56°	16057.7	13047.5	5655.4	3175.0	3148.3	3148.3	3232.9	3152.8	3032.5	3001.4	2974.6
57.5°	14810.9	11431.0	4733.6	3068.2	3028.1	3090.4	3135.0	3050.3	2939.0	2894.5	2921.2
60°	10215.3	7735.0	3558.0	2836.6	2836.6	2939.0	2974.6	2850.0	2801.0	2796.5	2760.9
62.5°	5962.6	4506.5	2783.2	2627.3	2636.2	2720.8	2747.5	2676.3	2613.9	2689.6	2725.3
65°	3161.7	2689.6	2386.8	2404.7	2409.1	2475.9	2591.7	2587.2	2582.8	2605.0	2609.5
67.5°	2288.9	2235.4	2168.6	2150.8	2159.7	2208.7	2324.5	2413.6	2409.1	2355.7	2315.6
70°	2039.5	1963.8	1923.7	1928.2	1892.5	1950.4	2044.0	2101.8	1999.4	1937.1	1910.4
72.5°	1696.6	1674.3	1647.6	1652.1	1580.8	1567.5	1460.6	1460.6	1433.9	1416.1	1447.2
75°	1295.8	1286.9	1300.3	1278.0	1202.3	1122.2	1059.8	1001.9	912.9	877.3	859.4
77.5°	819.4	846.1	877.3	828.3	797.1	739.2	676.9	619.0	547.7	507.6	507.6
80°	556.6	578.9	601.2	592.3	556.6	503.2	454.2	391.9	342.9	311.7	307.3
82.5°	423.0	440.9	472.0	436.4	400.8	356.2	316.2	271.6	227.1	191.5	191.5
85°	151.4	173.7	191.5	209.3	222.7	227.1	195.9	160.3	129.1	102.4	98.0
87.5°	40.1	44.5	49.0	44.5	44.5	44.5	49.0	44.5	40.1	31.2	31.2
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)