

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: P533075

Luminaire Tested: **GALN-SA8C-727-U-T2-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533075
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-13)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA8C-727-U-T2-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28007 lumens
Efficiency: N/A
Efficacy: 65.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

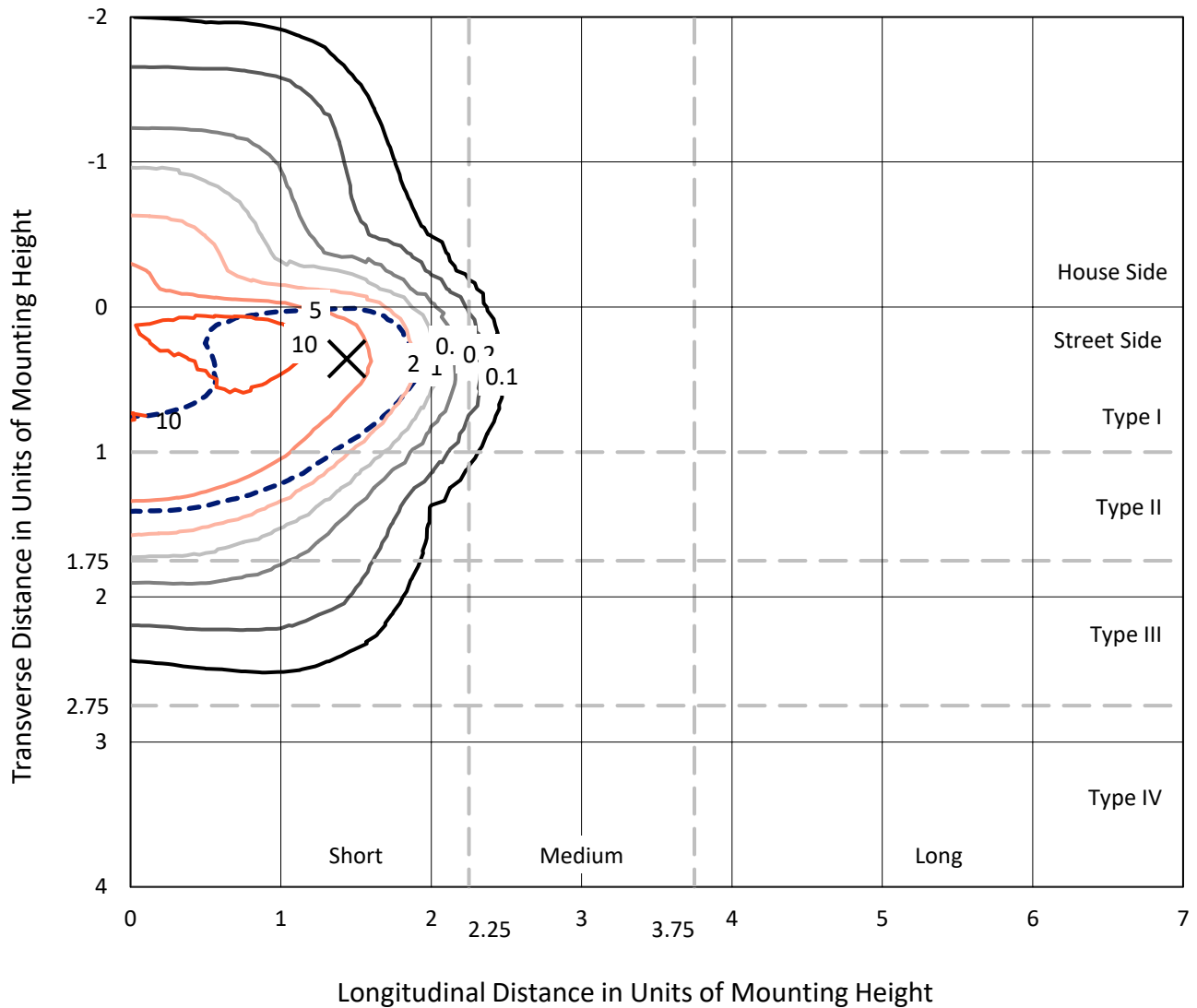
Input Watts (W): 429
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

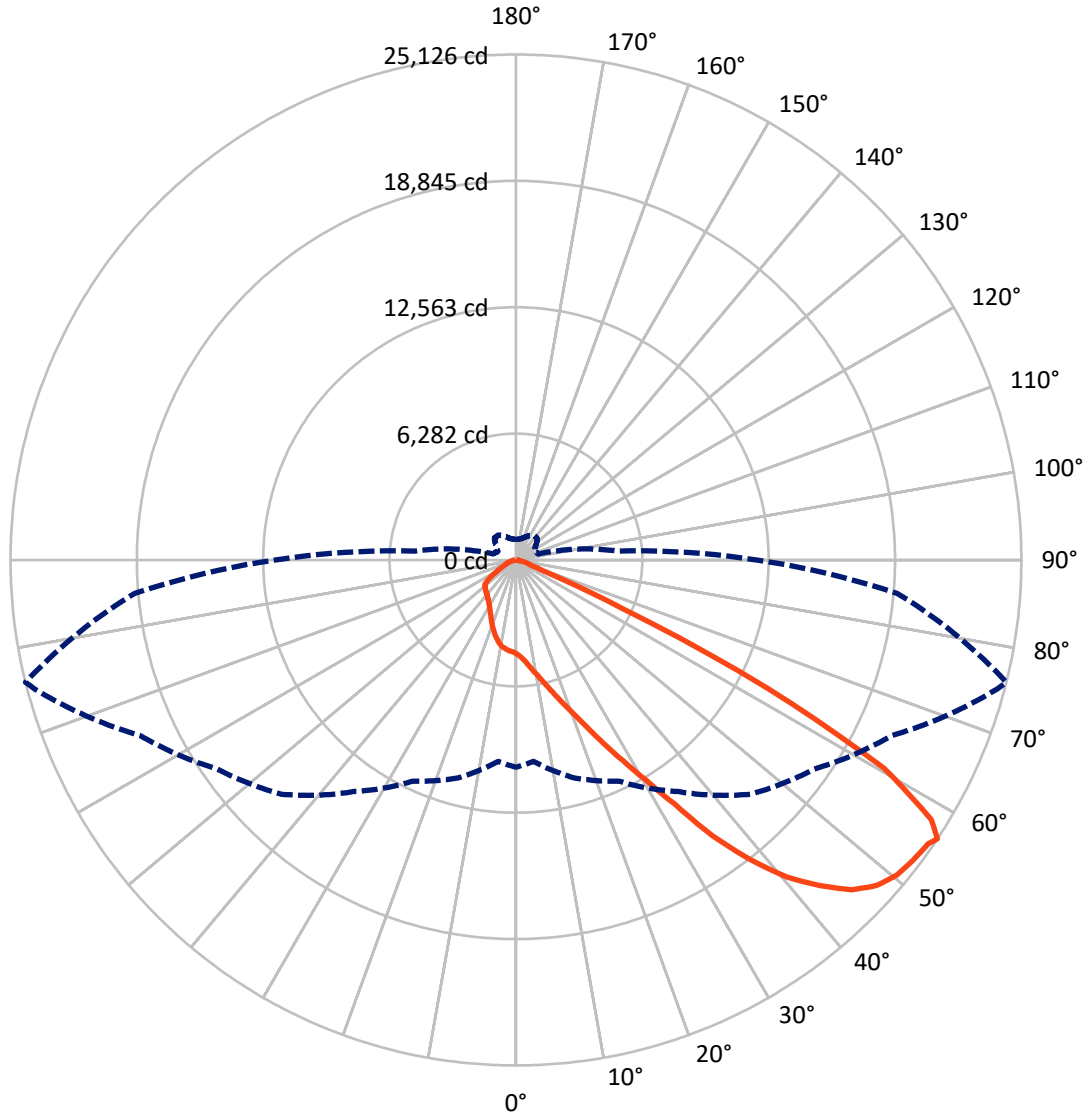
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.8 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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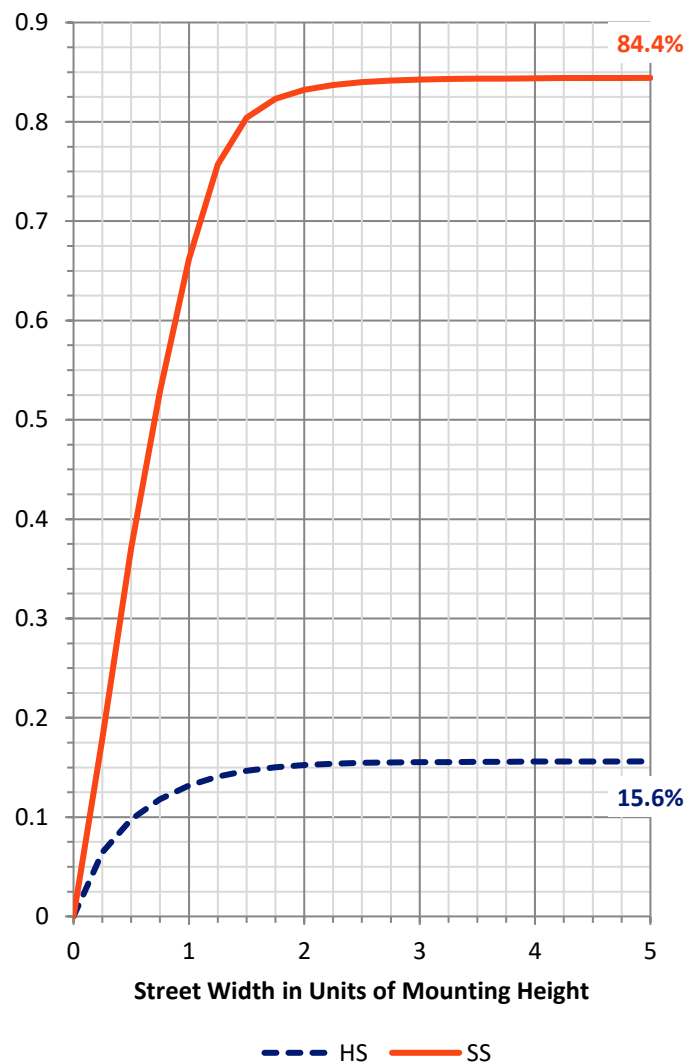
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4399.8	0.0	4399.8
	% Fixture	15.7	0.0	15.7
Street Side	Lumens	23607.2	0.0	23607.2
	% Fixture	84.3	0.0	84.3
Total	Lumens	28007.0	0.0	28007.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	469.6	1.7
10°-20°	1508.7	5.4
20°-30°	2735.7	9.8
30°-40°	4717.8	16.8
40°-50°	7664.2	27.4
50°-60°	8078.3	28.8
60°-70°	2468.3	8.8
70°-80°	316.4	1.1
80°-90°	48.1	0.2
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°	28007.0	100.0
0°-180°	28007.0	100.0



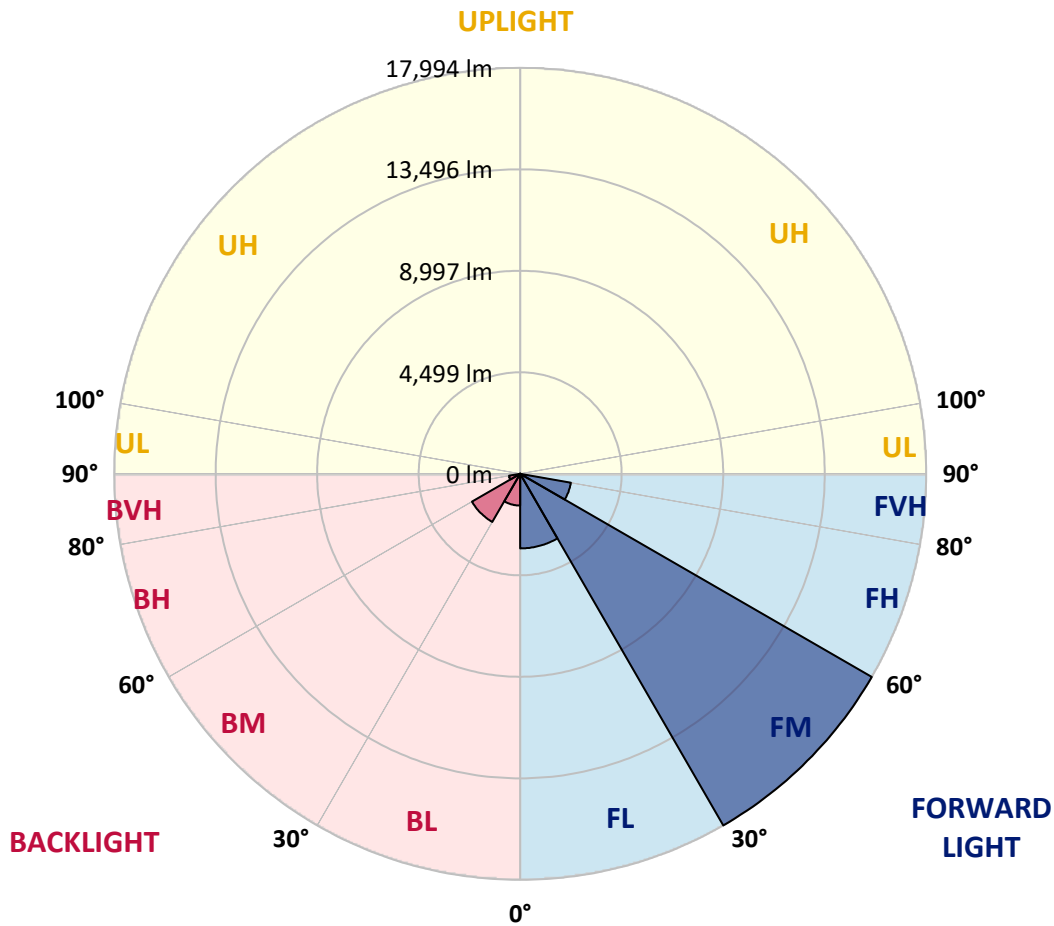
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3306.5	11.8			
FM (30°-60°)	17994.5	64.2			
FH (60°-80°)	2282.7	8.2			G2/5000
FVH (80°-90°)	23.6	0.1			G1/100
BL (0°-30°)	1407.5	5.0	B3/2500		
BM (30°-60°)	2465.8	8.8	B2/2500		
BH (60°-80°)	501.9	1.8	B2/1000		G2/1000
BVH (80°-90°)	24.5	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	4661.8	4661.8	4661.8	4661.8	4661.8	4661.8	4661.8	4661.8	4661.8	4661.8	4661.8
2.5°	5369.1	5245.2	5250.3	5240.0	5224.5	5167.7	4997.4	4971.6	4858.0	4827.0	4723.8
5°	6014.4	5906.0	5967.9	5875.0	5787.2	5735.6	5456.8	5327.8	5147.1	5080.0	4935.4
7.5°	6417.1	6365.5	6344.8	6350.0	6267.4	6138.3	6014.4	5730.5	5487.8	5436.2	5131.6
10°	6613.3	6582.3	6613.3	6597.8	6633.9	6649.4	6432.6	6262.2	5906.0	5818.2	5343.3
12.5°	6659.7	6721.7	6747.5	6814.6	6902.4	7052.1	7036.6	6804.3	6329.3	6272.5	5668.5
15°	6773.3	6824.9	6799.1	6907.5	7072.7	7325.7	7459.9	7423.8	6912.7	6809.4	6045.4
17.5°	6876.6	6783.6	6871.4	7088.2	7253.4	7640.6	7965.9	8115.6	7547.7	7428.9	6391.3
20°	7015.9	6990.1	6974.6	7083.1	7377.3	7893.6	8538.9	8812.5	8260.1	8136.2	6886.9
22.5°	7439.3	7444.4	7434.1	7274.1	7485.7	8069.1	9039.7	9716.0	9111.9	9008.7	7449.6
25°	7996.8	7929.7	7878.1	7749.0	7723.2	8229.1	9545.6	10820.8	10134.1	10061.9	8058.8
27.5°	8585.4	8585.4	8430.5	8311.7	8146.5	8626.7	10010.2	11894.6	11368.0	11269.9	8590.5
30°	9225.5	9261.7	9241.0	8988.0	8884.8	9060.3	10485.2	13267.8	12782.5	12658.6	9468.2
32.5°	10170.3	10092.8	10180.6	9968.9	9664.3	9819.2	11233.8	14496.5	14620.4	14444.9	10619.4
35°	11419.6	11373.2	11316.4	10970.5	10609.1	10733.0	12292.1	16009.2	16928.1	16840.3	11781.0
37.5°	12539.9	12514.1	12467.6	12230.1	11812.0	11961.7	13495.0	17583.7	19179.0	18889.9	13422.7
40°	13717.0	13856.4	13706.6	13495.0	13112.9	13443.4	14909.5	18518.2	21073.6	20722.6	14677.2
42.5°	15312.2	15203.8	15270.9	14883.7	14677.2	15038.6	16329.2	19452.6	22545.0	22126.8	16009.2
45°	17010.7	17015.9	16835.2	16711.3	16174.4	16566.7	17201.7	19968.8	23716.9	23391.6	17015.9
47.5°	18100.0	18094.8	18291.0	18487.2	17934.8	17547.6	17795.4	20459.3	24320.9	24171.2	17382.4
50°	17929.6	17981.3	18234.2	18967.3	19256.4	18735.0	18353.0	20314.7	24594.5	24579.0	17697.3
52.5°	15596.1	15766.5	16189.8	17248.2	18704.0	19349.3	18936.3	20583.2	24728.7	24754.6	18167.1
55°	11873.9	11966.9	12772.2	14057.7	15668.4	17878.0	18704.0	20794.9	24832.0	24878.5	18735.0
56°	10299.3	10051.5	11213.1	12126.9	14052.5	16468.6	18115.5	20629.7	24770.0	25126.3	19018.9
57.5°	7774.8	7609.6	8549.2	9690.2	11543.5	14093.8	16287.9	19850.1	24351.9	24346.7	18611.1
60°	4728.9	4563.7	5286.5	5957.6	6995.3	8678.3	11006.6	15807.8	20588.4	21022.0	15069.6
62.5°	2813.6	2916.9	3629.3	4037.1	4372.7	4548.2	5694.3	9395.9	13737.6	14047.4	9349.4
65°	1874.0	1910.2	2447.1	3118.2	3267.9	2601.9	2318.0	3804.8	5957.6	5766.6	3856.4
67.5°	1156.4	1239.0	1641.7	2343.8	2596.8	1899.8	1099.6	1419.7	1641.7	1641.7	1115.1
70°	702.1	743.4	1094.5	1595.2	1781.1	1223.5	800.2	800.2	789.9	774.4	666.0
72.5°	335.6	361.4	557.6	820.8	836.3	645.3	619.5	676.3	660.8	655.6	552.4
75°	144.6	154.9	196.2	258.1	294.3	273.6	376.9	485.3	500.8	485.3	397.5
77.5°	46.5	51.6	72.3	92.9	98.1	118.7	160.0	201.3	232.3	216.8	196.2
80°	5.2	10.3	20.7	46.5	72.3	92.9	118.7	134.2	149.7	149.7	139.4
82.5°	5.2	5.2	20.7	41.3	67.1	87.8	113.6	129.1	149.7	154.9	144.6
85°	0.0	5.2	15.5	36.1	56.8	56.8	51.6	51.6	36.1	36.1	36.1
87.5°	0.0	0.0	5.2	5.2	5.2	10.3	10.3	10.3	10.3	10.3	10.3
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°	4661.8	4661.8	4661.8	4661.8	4661.8	4661.8	4661.8	4661.8	4661.8	4661.8	4661.8
2.5°	4703.1	4692.8	4553.4	4465.6	4419.2	4326.2	4269.5	4228.2	4197.2	4161.0	4166.2
5°	4765.1	4728.9	4496.6	4336.6	4145.5	4042.3	3954.5	3882.3	3835.8	3825.5	3804.8
7.5°	4940.6	4749.6	4398.5	4109.4	3866.8	3763.5	3686.1	3639.6	3660.3	3613.8	3649.9
10°	5074.8	4790.9	4279.8	3861.6	3619.0	3541.5	3500.2	3536.4	3588.0	3567.3	3541.5
12.5°	5240.0	4832.2	4088.8	3624.1	3397.0	3340.2	3412.5	3479.6	3582.8	3624.1	3572.5
15°	5425.9	4878.6	3846.1	3350.5	3206.0	3252.4	3376.3	3495.1	3598.3	3649.9	3680.9
17.5°	5653.0	4863.1	3608.6	3133.7	3025.3	3159.5	3309.2	3417.6	3572.5	3649.9	3629.3
20°	5864.7	4811.5	3345.4	2916.9	2922.0	3045.9	3169.8	3345.4	3428.0	3531.2	3495.1
22.5°	6066.0	4718.6	3071.7	2767.1	2767.1	2958.2	3020.1	3133.7	3206.0	3257.6	3252.4
25°	6350.0	4543.1	2844.6	2622.6	2684.5	2808.4	2860.1	2896.2	2865.2	2906.5	2911.7
27.5°	6551.3	4362.4	2658.7	2493.5	2607.1	2700.0	2684.5	2663.9	2591.6	2534.8	2571.0
30°	6768.1	4150.7	2498.7	2405.8	2467.7	2550.3	2488.4	2426.4	2312.8	2219.9	2225.1
32.5°	7077.9	4052.6	2359.3	2302.5	2385.1	2395.4	2328.3	2235.4	2121.8	2034.1	2028.9
35°	7656.1	3990.7	2240.6	2235.4	2250.9	2256.0	2188.9	2075.4	2028.9	1956.6	1982.4
37.5°	8234.3	3959.7	2158.0	2137.3	2132.1	2137.3	2059.9	1951.5	2039.2	2034.1	2044.4
40°	8972.6	4099.1	2039.2	2013.4	2018.6	2018.6	1920.5	1889.5	2044.4	2059.9	2065.0
42.5°	9721.1	4274.6	1961.8	1879.2	1899.8	1899.8	1848.2	1812.1	1920.5	1817.2	1801.7
45°	10371.6	4532.7	1879.2	1745.0	1796.6	1822.4	1806.9	1745.0	1677.8	1502.3	1502.3
47.5°	10583.3	4759.9	1781.1	1615.9	1657.2	1770.8	1724.3	1595.2	1476.5	1331.9	1321.6
50°	10955.0	5007.7	1703.7	1466.2	1553.9	1693.3	1646.9	1517.8	1383.6	1280.3	1285.5
52.5°	11337.0	5291.6	1559.1	1290.6	1399.1	1631.4	1631.4	1486.8	1280.3	1208.0	1197.7
55°	11910.1	5281.3	1301.0	1058.3	1249.3	1538.4	1564.3	1331.9	1146.1	1089.3	1089.3
56°	11992.7	5043.8	1171.9	991.2	1182.2	1512.6	1517.8	1290.6	1094.5	1032.5	1032.5
57.5°	11373.2	4553.4	1027.4	908.6	1099.6	1466.2	1471.3	1254.5	1053.2	965.4	955.1
60°	8750.6	3082.1	857.0	810.5	996.4	1321.6	1347.4	1140.9	924.1	857.0	851.8
62.5°	4940.6	1708.8	753.7	733.1	857.0	1125.4	1202.9	996.4	784.7	748.6	758.9
65°	2256.0	939.6	635.0	593.7	691.8	867.3	970.6	820.8	645.3	604.0	604.0
67.5°	826.0	640.2	542.1	469.8	485.3	562.7	629.8	531.7	428.5	366.5	382.0
70°	588.5	536.9	475.0	407.8	376.9	366.5	361.4	299.4	211.7	165.2	175.5
72.5°	475.0	444.0	397.5	345.9	294.3	247.8	211.7	154.9	98.1	67.1	62.0
75°	340.7	325.2	289.1	247.8	206.5	175.5	144.6	98.1	51.6	25.8	25.8
77.5°	175.5	175.5	170.4	154.9	129.1	103.3	82.6	56.8	31.0	10.3	10.3
80°	134.2	144.6	149.7	134.2	118.7	92.9	67.1	41.3	20.7	5.2	5.2
82.5°	129.1	149.7	160.0	139.4	118.7	87.8	67.1	41.3	20.7	5.2	5.2
85°	31.0	31.0	46.5	51.6	67.1	72.3	56.8	36.1	15.5	5.2	5.2
87.5°	10.3	10.3	10.3	10.3	10.3	10.3	5.2	5.2	5.2	5.2	0.0
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)