

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: P532999

Luminaire Tested: **GALN-SA8B-827-U-T2R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P532999
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-9)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA8B-827-U-T2R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22340 lumens
Efficiency: N/A
Efficacy: 68.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B2 - U0 - G1

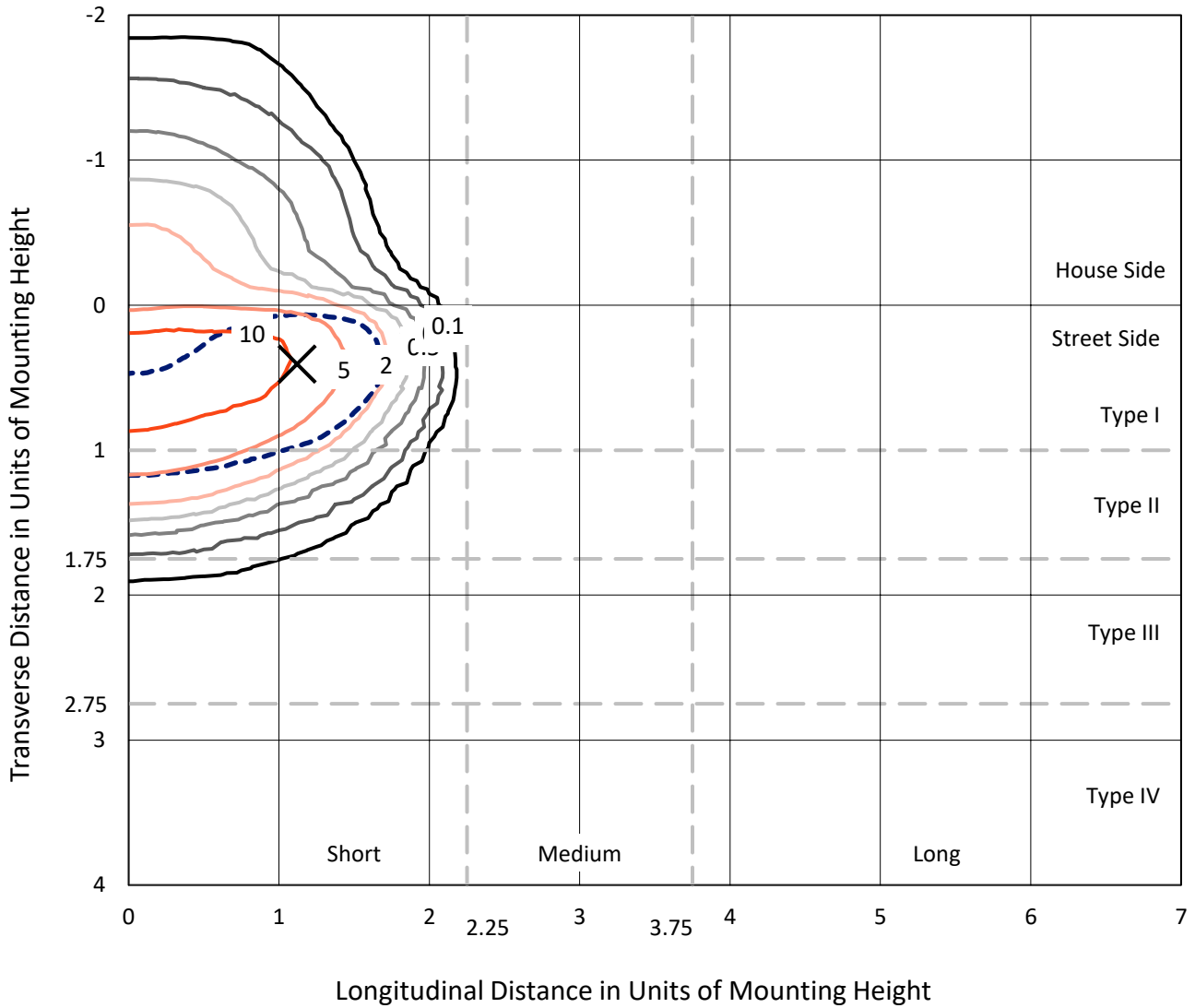
Input Watts (W): 325
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

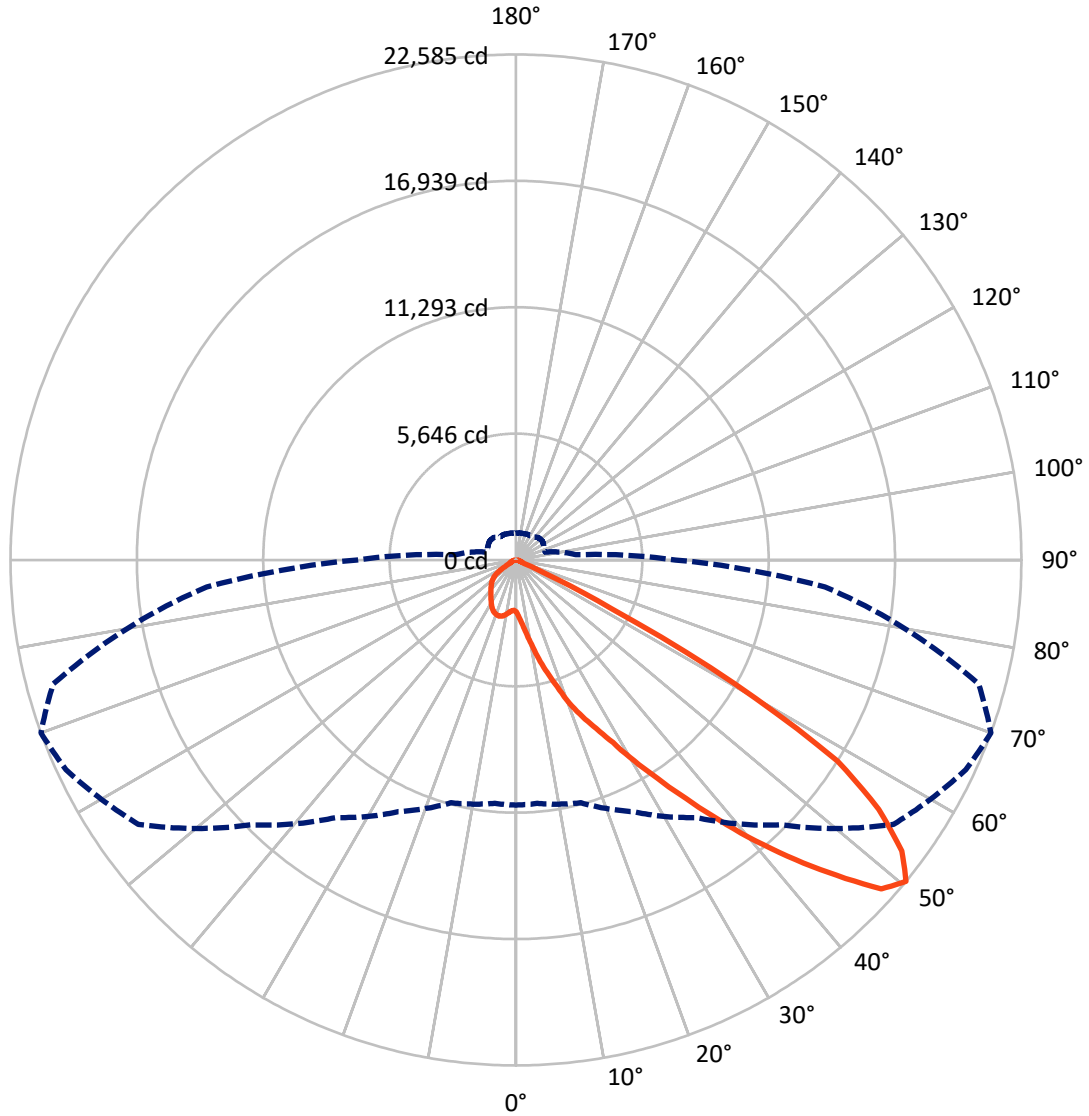
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.2 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 70-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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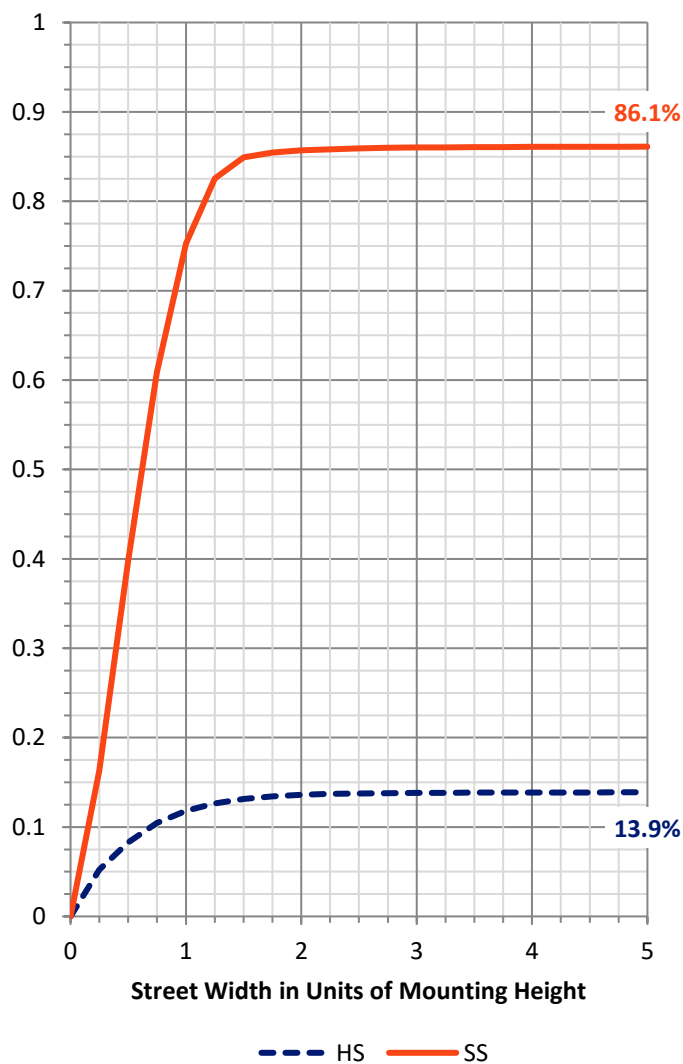
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3119.9	0.0	3119.9
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	19220.1	0.0	19220.1
	% Fixture	86.0	0.0	86.0
Total	Lumens	22340.0	0.0	22340.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	300.9	1.3
10°-20°	1301.6	5.8
20°-30°	2730.5	12.2
30°-40°	4706.5	21.1
40°-50°	6878.5	30.8
50°-60°	5357.2	24.0
60°-70°	907.7	4.1
70°-80°	124.7	0.6
80°-90°	32.3	0.1
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°	22340.0	100.0
0°-180°	22340.0	100.0

Coefficient of Utilization



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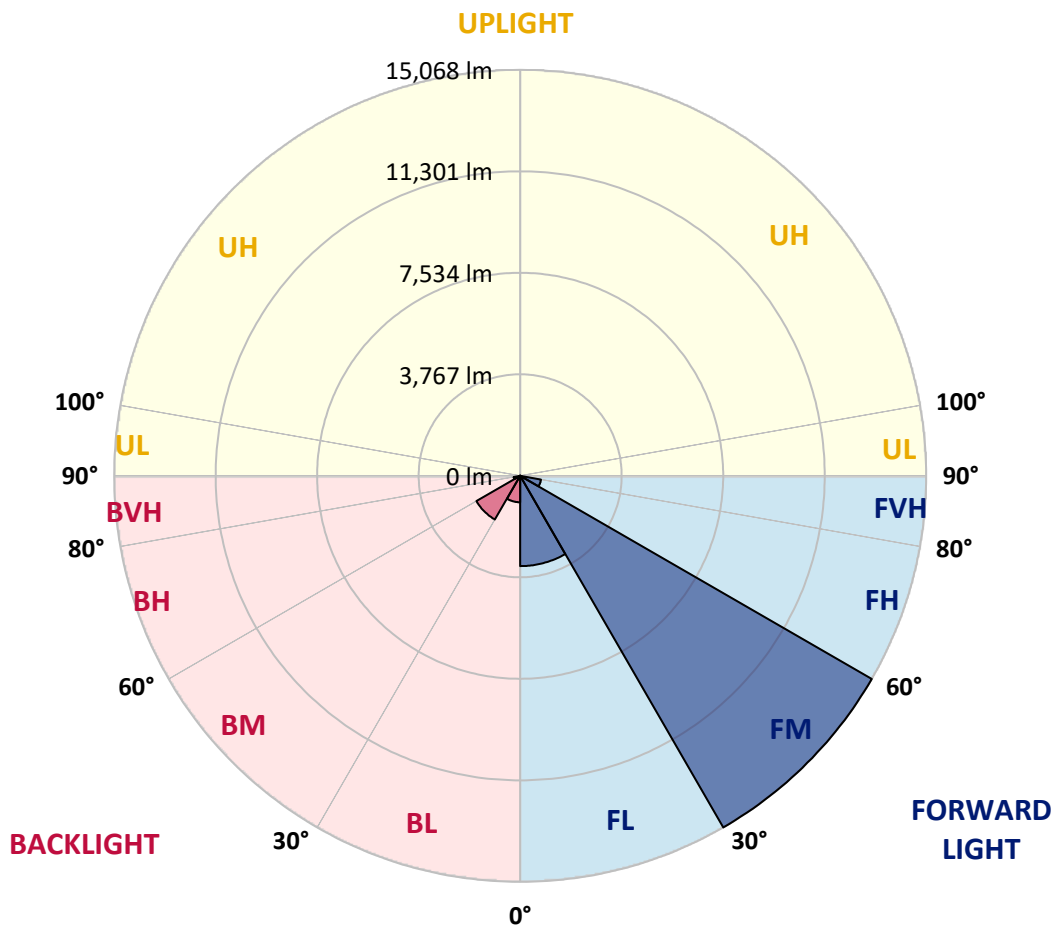
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3351.3	15.0			
FM (30°-60°)	15067.9	67.4			
FH (60°-80°)	785.9	3.5			G1/1800
FVH (80°-90°)	14.9	0.1			G1/100
BL (0°-30°)	981.8	4.4	B2/1000		
BM (30°-60°)	1874.4	8.4	B2/2500		
BH (60°-80°)	246.5	1.1	B1/500		G1/500
BVH (80°-90°)	17.4	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1

Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	2314.0	2314.0	2314.0	2314.0	2314.0	2314.0	2314.0	2314.0	2314.0	2314.0	2314.0
2.5°	3030.2	3008.2	2960.4	2872.3	2835.5	2747.4	2696.0	2596.8	2534.4	2464.6	2387.4
5°	4268.0	4154.2	4084.4	3985.2	3695.0	3515.1	3217.5	2964.1	2846.6	2718.0	2541.7
7.5°	5546.2	5472.8	5377.3	5164.2	4965.9	4591.2	4080.7	3522.4	3283.7	3063.3	2714.3
10°	6604.0	6398.3	6387.3	6229.4	6012.7	5564.6	4951.2	4257.0	3830.9	3507.7	2960.4
12.5°	7342.3	7155.0	7239.5	7221.1	7019.1	6607.7	5898.8	4980.6	4536.1	4032.9	3213.9
15°	8014.5	7937.3	7911.6	7889.6	7808.8	7503.9	6868.5	5862.1	5219.3	4613.3	3500.4
17.5°	8671.9	8473.6	8569.1	8587.5	8580.1	8304.6	7709.6	6699.5	5942.9	5226.7	3801.5
20°	9255.9	9274.3	9145.7	9120.0	9098.0	9087.0	8506.6	7529.6	6831.8	5869.4	4194.6
22.5°	10005.2	9876.7	9990.5	9917.1	9773.8	9685.7	9241.2	8264.2	7603.1	6644.4	4594.9
25°	10890.4	10993.3	10725.1	10695.7	10537.8	10233.0	9832.6	9087.0	8345.0	7364.3	5028.3
27.5°	11981.3	11801.3	11731.5	11569.9	11283.4	11154.9	10684.7	9935.4	9241.2	8121.0	5447.0
30°	12917.9	12870.2	12521.2	12330.2	12080.5	12076.8	11419.3	11085.1	10409.3	9307.4	6023.7
32.5°	13681.9	13472.5	13344.0	13211.7	13009.7	13064.8	12510.2	12333.9	11654.4	10409.3	6703.2
35°	14192.4	14041.8	13964.7	13762.7	13703.9	13950.0	13718.6	13645.2	13086.9	11959.3	7500.2
37.5°	14354.0	14401.8	14387.1	14133.7	14258.5	14923.4	15220.9	15029.9	14736.0	13593.7	8363.4
40°	14497.3	14530.4	14456.9	14754.4	15110.7	15867.3	16943.5	16627.6	16517.4	15250.3	9564.5
42.5°	14578.1	14552.4	14552.4	15066.6	15606.5	17127.2	18607.4	18398.0	18313.5	17013.3	10952.9
45°	14229.2	13979.4	14247.5	14945.4	16032.6	17747.9	19937.0	20227.2	20106.0	19110.6	12576.3
47.5°	12925.3	13079.5	13230.1	14163.1	15514.7	17556.9	20752.4	21740.4	21964.5	20873.6	13641.5
50°	10952.9	10919.8	11232.0	12407.4	14049.2	16734.1	20594.5	22177.5	22585.2	21402.5	13865.5
52.5°	7966.7	8209.1	8547.0	9715.1	11661.7	14603.8	18555.9	21049.9	21593.5	20752.4	13718.6
55°	4639.0	4370.9	5131.2	6119.2	7955.7	11015.3	15687.3	18658.8	19665.2	19569.7	12976.7
57.5°	1858.5	1799.8	2060.5	2776.8	4150.5	6828.1	11408.3	15331.1	16943.5	17924.2	11404.6
60°	815.4	797.0	936.6	1131.3	1696.9	3147.8	6240.4	9535.1	11217.3	12524.9	7849.2
62.5°	587.7	580.3	650.1	719.9	896.2	1370.0	2622.5	3841.9	4789.6	5785.0	3515.1
65°	473.8	492.2	539.9	576.7	661.1	760.3	925.6	1068.8	1311.3	1359.0	775.0
67.5°	385.7	400.4	444.4	484.8	499.5	411.4	426.1	374.6	374.6	334.2	268.1
70°	282.8	286.5	337.9	385.7	308.5	165.3	290.2	290.2	260.8	249.8	227.7
72.5°	209.4	213.0	253.4	238.7	121.2	102.8	213.0	235.1	213.0	202.0	183.6
75°	154.3	157.9	132.2	55.1	51.4	66.1	124.9	161.6	154.3	150.6	139.6
77.5°	29.4	22.0	18.4	25.7	36.7	55.1	80.8	99.2	102.8	110.2	102.8
80°	3.7	3.7	11.0	22.0	40.4	58.8	84.5	95.5	99.2	102.8	95.5
82.5°	0.0	3.7	11.0	22.0	40.4	55.1	73.5	84.5	91.8	95.5	91.8
85°	0.0	3.7	7.3	18.4	33.1	40.4	36.7	25.7	22.0	25.7	18.4
87.5°	0.0	0.0	3.7	3.7	7.3	7.3	7.3	7.3	7.3	7.3	7.3
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°	2314.0	2314.0	2314.0	2314.0	2314.0	2314.0	2314.0	2314.0	2314.0	2314.0	2314.0
2.5°	2343.4	2328.7	2277.3	2222.2	2174.4	2196.4	2174.4	2156.0	2163.4	2156.0	2148.7
5°	2471.9	2405.8	2295.6	2247.9	2207.5	2203.8	2192.8	2189.1	2192.8	2192.8	2159.7
7.5°	2593.1	2486.6	2369.1	2317.7	2269.9	2273.6	2247.9	2247.9	2244.2	2225.8	2218.5
10°	2776.8	2633.5	2482.9	2391.1	2332.3	2321.3	2295.6	2269.9	2269.9	2269.9	2233.2
12.5°	2978.8	2798.8	2593.1	2486.6	2416.8	2361.7	2321.3	2314.0	2273.6	2266.2	2247.9
15°	3155.1	2927.4	2666.6	2519.7	2431.5	2358.1	2295.6	2255.2	2236.9	2225.8	2211.1
17.5°	3327.7	3037.6	2707.0	2519.7	2424.2	2339.7	2273.6	2236.9	2192.8	2200.1	2170.7
20°	3559.1	3155.1	2718.0	2471.9	2354.4	2273.6	2185.4	2167.1	2141.4	2119.3	2126.7
22.5°	3783.2	3239.6	2685.0	2413.2	2244.2	2148.7	2104.6	2082.6	2071.6	2053.2	2027.5
25°	3985.2	3331.4	2633.5	2306.6	2126.7	2056.9	2016.5	2012.8	1987.1	1987.1	1939.3
27.5°	4190.9	3364.5	2545.4	2181.8	2023.8	1983.4	1965.0	1957.7	1946.7	1921.0	1887.9
30°	4426.0	3375.5	2416.8	2053.2	1932.0	1887.9	1913.6	1932.0	1884.2	1836.5	1851.2
32.5°	4620.6	3349.8	2262.6	1932.0	1865.9	1843.8	1895.3	1913.6	1858.5	1807.1	1781.4
35°	4855.7	3287.3	2112.0	1836.5	1799.8	1843.8	1887.9	1887.9	1777.7	1715.3	1700.6
37.5°	5212.0	3217.5	1972.4	1755.7	1730.0	1821.8	1880.6	1840.2	1667.5	1590.4	1572.0
40°	5594.0	3173.5	1836.5	1674.9	1693.2	1785.1	1818.1	1693.2	1516.9	1469.2	1454.5
42.5°	6148.6	3085.3	1715.3	1605.1	1660.2	1733.7	1733.7	1509.6	1443.5	1417.8	1414.1
45°	6839.1	3022.9	1608.8	1546.3	1612.4	1630.8	1572.0	1414.1	1366.4	1359.0	1362.7
47.5°	7177.0	2901.7	1498.6	1476.5	1524.3	1528.0	1373.7	1337.0	1296.6	1285.5	1278.2
50°	7125.6	2685.0	1355.3	1384.7	1450.8	1414.1	1252.5	1259.8	1223.1	1219.4	1201.1
52.5°	6765.6	2343.4	1212.1	1281.9	1355.3	1248.8	1153.3	1146.0	1146.0	1098.2	1079.9
55°	5998.0	1887.9	1039.5	1127.6	1215.8	1050.5	1024.8	1017.4	999.1	955.0	944.0
57.5°	4749.2	1384.7	782.3	877.8	1032.1	892.5	888.9	855.8	808.1	775.0	775.0
60°	2824.5	797.0	492.2	536.3	683.2	723.6	804.4	789.7	708.9	657.5	642.8
62.5°	1289.2	411.4	312.2	319.6	367.3	470.1	631.8	730.9	617.1	528.9	521.6
65°	433.4	304.9	257.1	246.1	253.4	282.8	378.3	517.9	492.2	407.7	393.0
67.5°	264.5	271.8	242.4	224.1	224.1	220.4	216.7	235.1	290.2	282.8	286.5
70°	227.7	249.8	224.1	202.0	194.7	183.6	154.3	128.6	110.2	128.6	135.9
72.5°	183.6	198.3	191.0	172.6	154.3	139.6	110.2	84.5	62.4	55.1	55.1
75°	135.9	146.9	154.3	132.2	117.5	99.2	80.8	55.1	33.1	22.0	22.0
77.5°	99.2	110.2	113.9	102.8	88.2	69.8	51.4	36.7	18.4	7.3	7.3
80°	84.5	99.2	110.2	102.8	91.8	66.1	47.7	25.7	14.7	3.7	3.7
82.5°	80.8	99.2	110.2	99.2	88.2	62.4	47.7	29.4	11.0	3.7	3.7
85°	18.4	25.7	33.1	40.4	47.7	47.7	36.7	22.0	11.0	3.7	3.7
87.5°	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	3.7	3.7	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)