

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: P531347

Luminaire Tested: **GALN-SA6C-827-U-AFL-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P531347
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-27)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA6C-827-U-AFL-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22862 lumens
Efficiency: N/A
Efficacy: 71.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G1

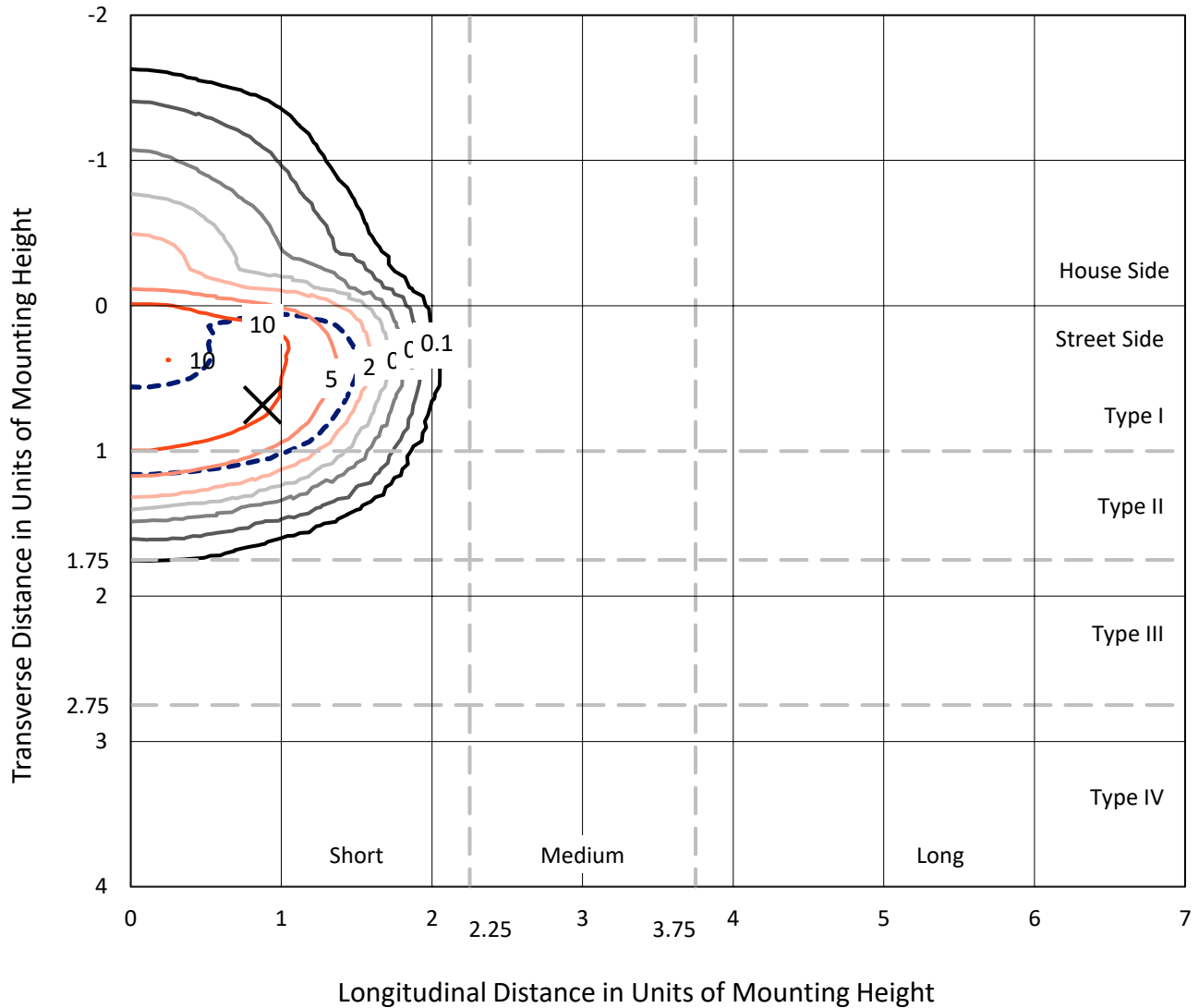
Input Watts (W): 321
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

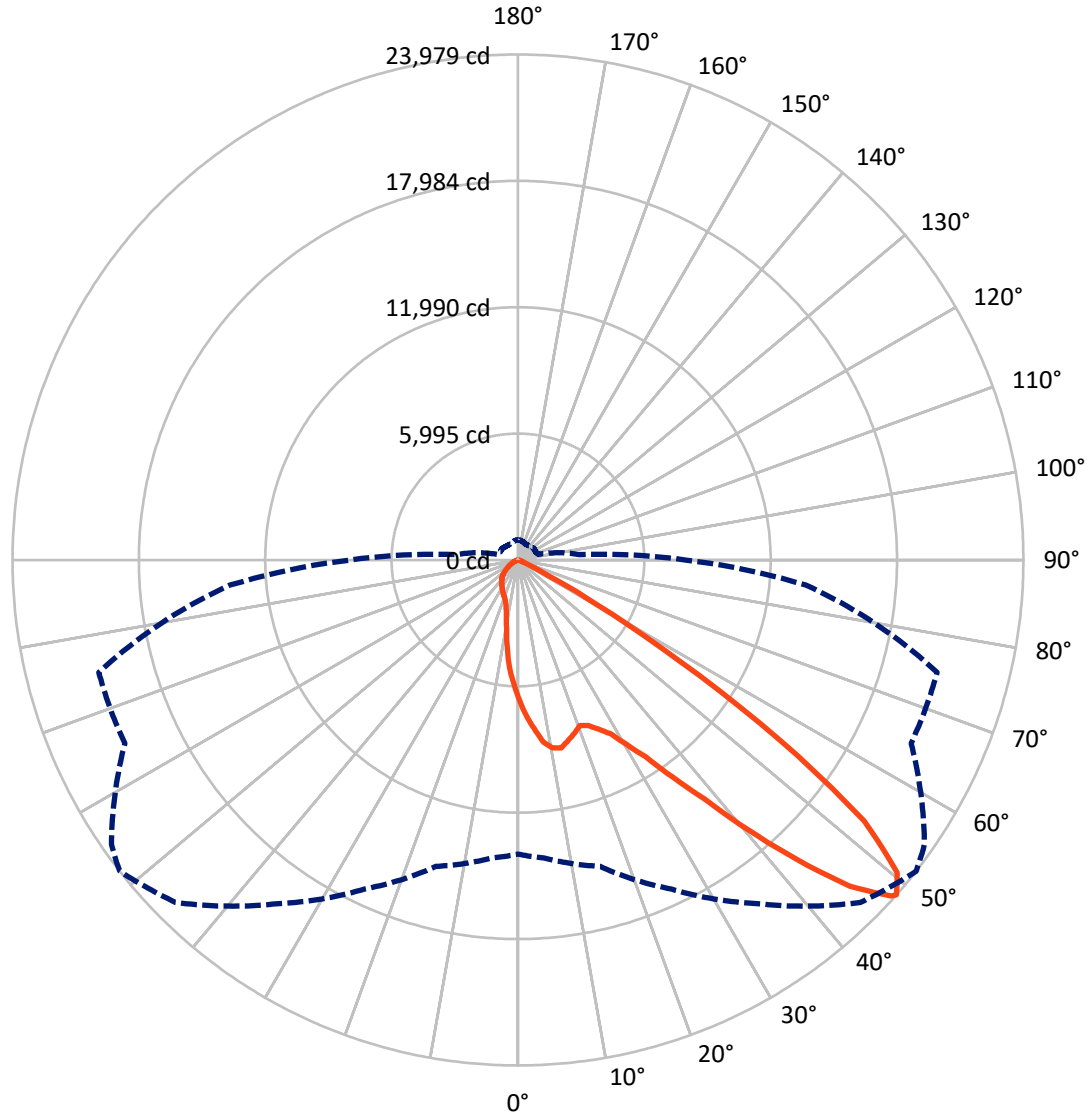
× Max cd
 - - - 1/2 Max cd



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 52-Deg Lateral - - - Horizontal Cone Through 48-Deg Vertical

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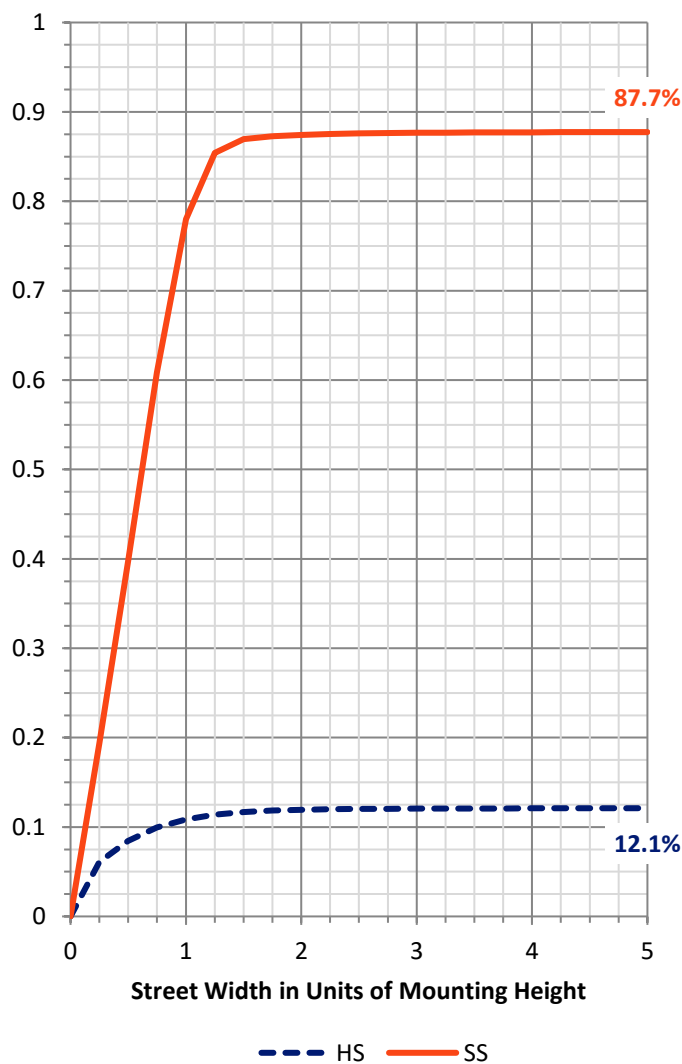
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2783.6	0.0	2783.6
	% Fixture	12.2	0.0	12.2
Street Side	Lumens	20078.4	0.0	20078.4
	% Fixture	87.8	0.0	87.8
Total	Lumens	22862.0	0.0	22862.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	604.3	2.6
10°-20°	1579.2	6.9
20°-30°	2696.4	11.8
30°-40°	4965.4	21.7
40°-50°	7711.2	33.7
50°-60°	4640.8	20.3
60°-70°	536.8	2.3
70°-80°	103.9	0.5
80°-90°	24.0	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°	22862.0	100.0
0°-180°	22862.0	100.0

Coefficient of Utilization



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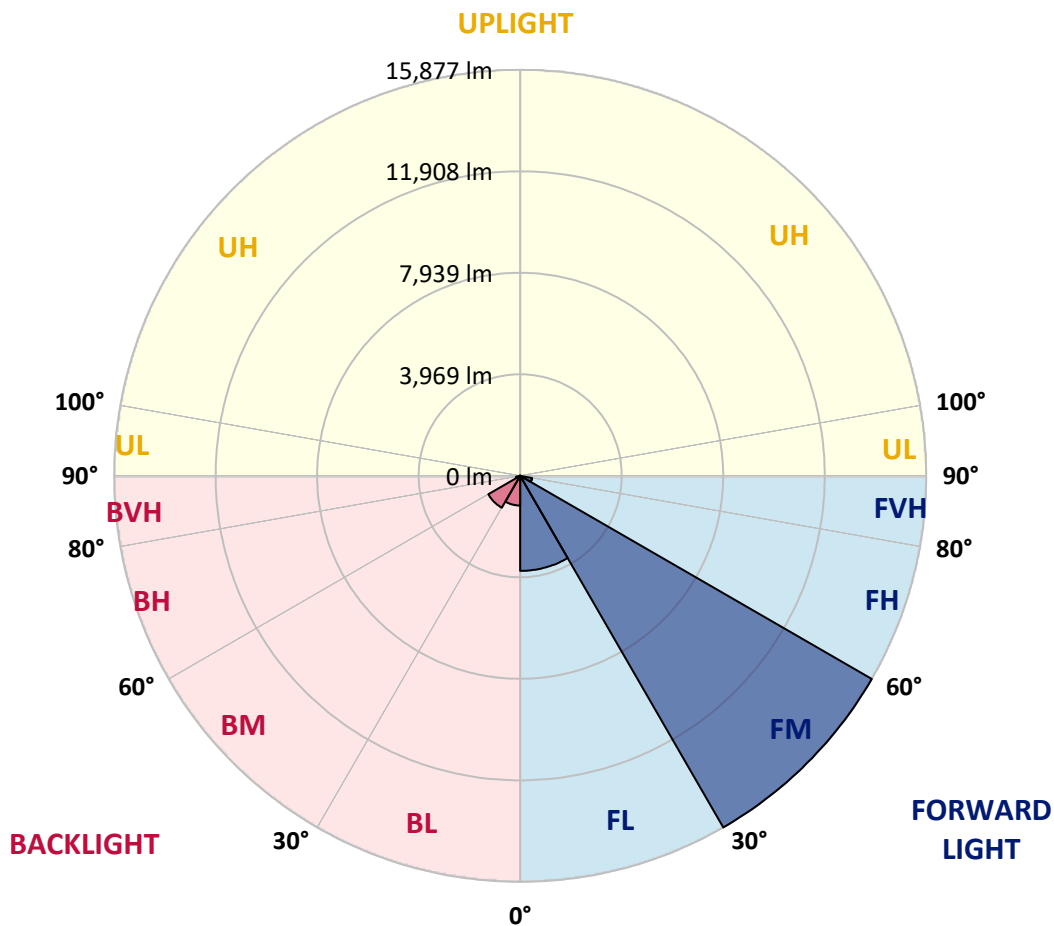
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3717.1	16.3			
FM (30°-60°)	15877.2	69.4			
FH (60°-80°)	472.7	2.1			G0/660
FVH (80°-90°)	11.4	0.1			G1/100
BL (0°-30°)	1162.8	5.1	B3/2500		
BM (30°-60°)	1440.2	6.3	B2/2500		
BH (60°-80°)	168.0	0.7	B1/500		G1/500
BVH (80°-90°)	12.6	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-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	52°	55°	65°	75°	85°
0°	6602.2	6602.2	6602.2	6602.2	6602.2	6602.2	6602.2	6602.2	6602.2	6602.2	6602.2
2.5°	8001.9	7818.6	7835.3	7715.3	7645.3	7532.0	7378.7	7348.7	7182.1	6955.4	6725.5
5°	8721.8	8678.5	8735.1	8561.8	8568.5	8381.9	8021.9	8028.6	7645.3	7275.4	6918.8
7.5°	8768.4	8668.5	8725.1	8878.4	8968.4	8935.1	8731.8	8555.2	8191.9	7648.6	7128.7
10°	7851.9	8041.9	8101.9	8355.2	8715.1	9095.1	9071.7	9081.7	8778.4	8068.6	7308.7
12.5°	7302.0	7175.4	7378.7	7532.0	8075.2	8811.8	9148.4	9221.7	9245.0	8475.2	7488.7
15°	7052.1	7052.1	7085.4	7128.7	7522.0	8201.9	8888.4	9101.7	9605.0	9008.4	7772.0
17.5°	7208.7	7202.1	7248.7	7158.7	7305.4	7828.6	8648.5	8891.8	10008.2	9531.6	7995.3
20°	7685.3	7708.6	7678.6	7418.7	7428.7	7822.0	8381.9	8765.1	10281.5	9984.9	8291.9
22.5°	8348.5	8361.9	8191.9	7908.6	7825.3	8018.6	8535.2	8828.4	10501.5	10528.1	8381.9
25°	9115.1	9061.7	9028.4	8628.5	8375.2	8541.8	8881.8	9051.7	10638.1	10994.7	8638.5
27.5°	10178.2	10071.6	9868.3	9511.7	9325.0	9088.4	9331.7	9611.6	11028.0	11647.9	8918.4
30°	11747.9	11654.6	11258.0	10798.1	10308.2	10074.9	10151.5	10304.8	11731.3	12404.5	9288.4
32.5°	14110.8	13914.2	13341.0	12464.5	11797.9	11154.7	11134.7	11298.0	12361.1	13451.0	9728.3
35°	16713.7	16653.7	15810.5	14907.4	13617.6	12624.4	12641.1	12727.7	13567.6	14824.0	10304.8
37.5°	18443.4	18773.3	18236.8	17266.9	16183.8	14764.1	14404.1	14434.1	15224.0	16450.4	11344.7
40°	19779.8	19499.9	19563.2	19336.6	18596.7	17630.2	16833.7	16677.1	17140.3	18250.1	12377.8
42.5°	19196.6	19209.9	19599.9	20136.4	20319.7	20249.8	19436.6	19139.9	18780.0	19723.2	13361.0
45°	17550.2	17893.5	18400.1	19819.8	21066.3	22236.1	22076.1	21582.9	19913.1	20889.6	13927.5
47.5°	14924.0	14910.7	15740.5	17586.9	20356.4	23095.9	23822.5	23475.8	20716.3	20759.7	13810.9
48°	13954.2	14194.2	15050.7	17223.6	19906.5	22969.3	23979.1	23542.5	20579.7	20586.4	13710.9
50°	10314.8	10271.5	11338.0	14004.2	17780.2	21582.9	23319.2	23659.1	20576.4	19709.8	13011.0
52.5°	5449.0	5635.7	6412.2	8805.1	12571.1	17663.5	20569.7	21099.6	19849.8	18276.8	12004.5
55°	2316.3	2093.0	2689.5	3976.0	7072.1	11801.2	15090.7	16270.5	16783.7	16173.8	10501.5
57.5°	826.5	903.2	1039.8	1496.4	2972.8	6458.9	8998.4	9914.9	11627.9	11867.9	7155.4
60°	529.9	539.9	583.2	686.5	1116.5	2489.6	4269.2	4999.1	5775.6	5962.3	3339.4
62.5°	409.9	413.3	433.3	449.9	529.9	966.5	1603.0	1899.7	1973.0	1696.4	876.5
65°	343.3	346.6	353.3	353.3	376.6	453.3	559.9	616.6	599.9	593.2	496.6
67.5°	263.3	270.0	283.3	283.3	296.6	276.6	309.9	329.9	373.3	453.3	423.3
70°	206.6	210.0	220.0	226.6	226.6	200.0	223.3	243.3	273.3	336.6	333.3
72.5°	160.0	166.6	173.3	173.3	163.3	136.6	160.0	176.6	196.6	233.3	226.6
75°	123.3	123.3	126.6	103.3	80.0	70.0	96.6	116.6	146.6	153.3	126.6
77.5°	33.3	36.7	33.3	30.0	33.3	50.0	63.3	73.3	93.3	93.3	83.3
80°	0.0	3.3	10.0	20.0	33.3	46.7	56.7	63.3	73.3	80.0	76.7
82.5°	0.0	3.3	10.0	20.0	30.0	36.7	50.0	53.3	60.0	70.0	70.0
85°	0.0	3.3	6.7	13.3	20.0	23.3	23.3	20.0	20.0	16.7	13.3
87.5°	0.0	0.0	3.3	6.7	6.7	10.0	10.0	10.0	10.0	10.0	10.0
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°	6602.2	6602.2	6602.2	6602.2	6602.2	6602.2	6602.2	6602.2	6602.2	6602.2	6602.2
2.5°	6635.5	6532.2	6375.5	6128.9	5892.3	5739.0	5592.3	5429.0	5339.1	5332.4	5282.4
5°	6715.5	6482.2	6108.9	5685.7	5232.4	4842.5	4449.2	4192.6	3962.6	3836.0	3812.7
7.5°	6758.8	6455.5	5852.3	5142.4	4369.2	3732.7	3292.8	2969.5	2842.8	2749.5	2746.2
10°	6848.8	6408.9	5469.0	4422.6	3466.1	2822.8	2519.6	2372.9	2302.9	2276.3	2236.3
12.5°	6915.4	6322.2	5075.8	3682.7	2739.5	2339.6	2206.3	2172.9	2176.3	2189.6	2172.9
15°	7008.8	6245.6	4545.9	3022.8	2299.6	2106.3	2106.3	2113.0	2159.6	2166.3	2163.0
17.5°	7002.1	6095.6	3999.3	2489.6	2033.0	2006.3	2016.3	2079.6	2109.6	2119.6	2096.3
20°	7082.1	5955.6	3436.1	2126.3	1883.0	1923.0	1989.6	2006.3	2043.0	2049.6	2023.0
22.5°	7058.8	5605.7	2912.8	1839.7	1769.7	1846.3	1913.0	1933.0	1923.0	1903.0	1899.7
25°	7015.4	5305.7	2432.9	1649.7	1686.4	1769.7	1833.0	1796.3	1776.4	1779.7	1783.0
27.5°	6938.8	4925.8	2036.3	1516.4	1573.1	1696.4	1693.0	1679.7	1699.7	1683.0	1699.7
30°	6925.4	4545.9	1709.7	1396.4	1489.7	1579.7	1586.4	1609.7	1633.0	1603.0	1633.0
32.5°	6945.4	4129.3	1476.4	1323.1	1439.7	1443.1	1516.4	1539.7	1523.1	1456.4	1463.1
35°	7098.7	3809.3	1306.4	1283.1	1359.8	1363.1	1433.1	1403.1	1329.8	1289.8	1313.1
37.5°	7422.0	3542.7	1226.4	1246.4	1253.1	1296.4	1299.8	1239.8	1246.4	1243.1	1256.4
40°	7835.3	3339.4	1169.8	1213.1	1206.5	1236.4	1116.5	1149.8	1179.8	1189.8	1196.5
42.5°	8118.6	3192.8	1133.1	1159.8	1146.5	1093.1	1026.5	1059.8	1083.1	1119.8	1126.5
45°	8245.2	3076.1	1089.8	1066.5	1066.5	969.8	943.2	949.8	1003.2	1043.1	1036.5
47.5°	8038.6	2962.8	1013.2	943.2	966.5	886.5	856.5	856.5	913.2	963.2	953.2
48°	7958.6	2916.2	1016.5	916.5	933.2	873.2	843.2	836.5	899.8	946.5	946.5
50°	7562.0	2742.8	929.8	843.2	809.9	803.2	783.2	789.9	829.9	873.2	873.2
52.5°	6788.8	2369.6	786.5	723.2	663.2	703.2	713.2	699.9	719.9	759.9	756.5
55°	5665.7	1819.7	629.9	599.9	553.2	596.6	616.6	599.9	579.9	609.9	609.9
57.5°	3629.4	979.8	503.2	509.9	463.3	506.6	523.2	483.2	446.6	469.9	466.6
60°	1636.4	586.6	413.3	403.3	373.3	423.3	449.9	403.3	353.3	369.9	386.6
62.5°	613.2	416.6	313.3	306.6	299.9	346.6	359.9	323.3	273.3	283.3	286.6
65°	449.9	366.6	250.0	226.6	240.0	273.3	266.6	230.0	196.6	196.6	203.3
67.5°	383.3	319.9	203.3	176.6	176.6	180.0	166.6	146.6	136.6	143.3	150.0
70°	299.9	253.3	160.0	136.6	123.3	110.0	96.6	93.3	83.3	93.3	90.0
72.5°	193.3	170.0	123.3	103.3	93.3	76.7	63.3	60.0	50.0	46.7	46.7
75°	103.3	103.3	96.6	83.3	73.3	60.0	50.0	40.0	26.7	20.0	20.0
77.5°	73.3	80.0	86.7	80.0	66.7	50.0	40.0	26.7	13.3	6.7	6.7
80°	70.0	80.0	86.7	76.7	66.7	50.0	36.7	20.0	10.0	3.3	3.3
82.5°	63.3	73.3	80.0	70.0	60.0	43.3	33.3	20.0	10.0	3.3	3.3
85°	13.3	16.7	20.0	20.0	23.3	30.0	23.3	16.7	6.7	3.3	3.3
87.5°	10.0	10.0	10.0	10.0	10.0	10.0	6.7	6.7	3.3	3.3	3.3
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)