

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: P383253

Luminaire Tested: **GLEON-SA5D-735-U-SL4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383253
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-24)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA5D-735-U-SL4
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 34327.5 lumens
Efficiency: N/A
Efficacy: 107.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

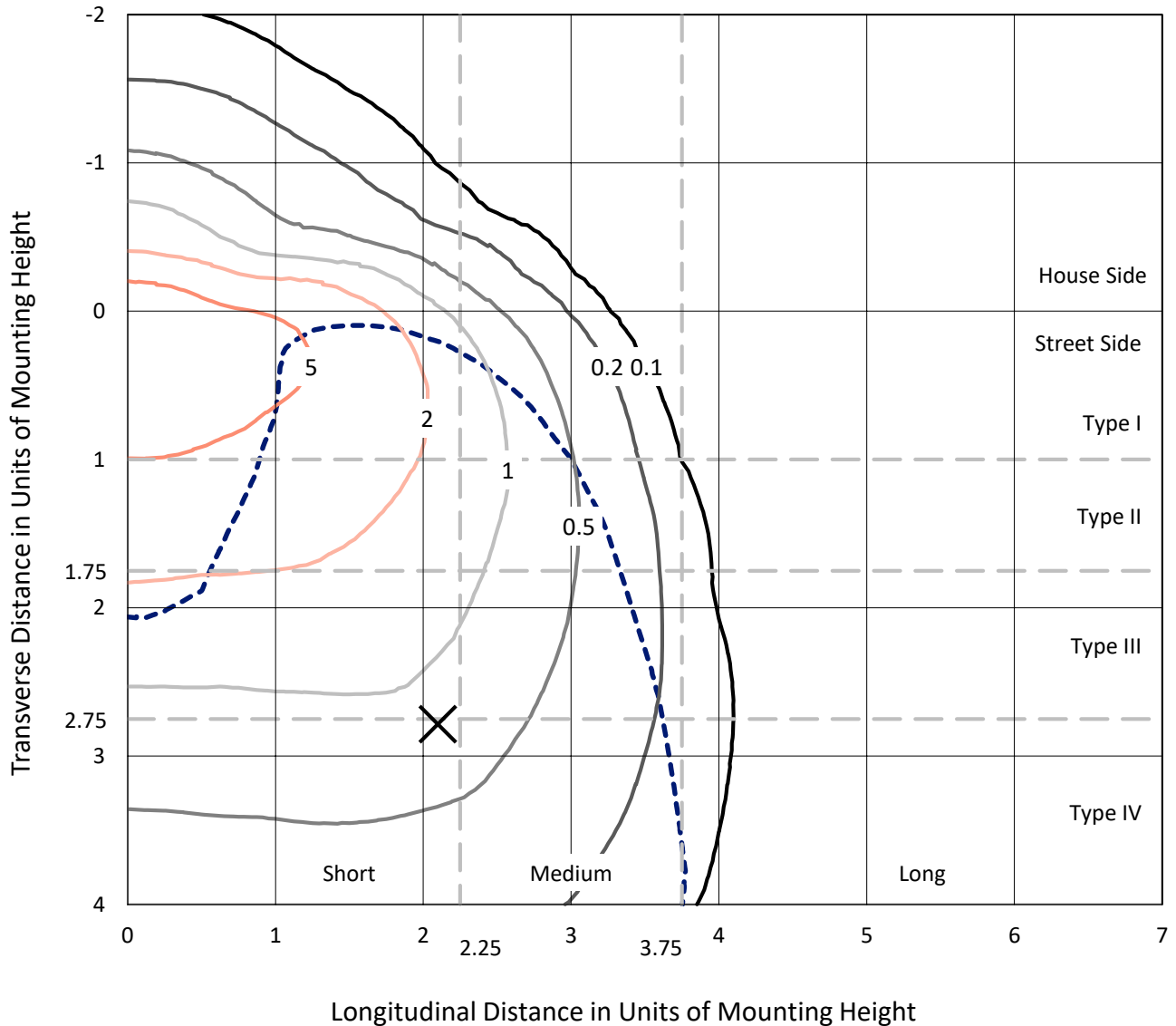
Input Watts (W): 320
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P383253
 CATALOG NUMBER: GLEON-SA5D-735-U-SL4

Iso-Footcandle Lines of Horizontal Illumination

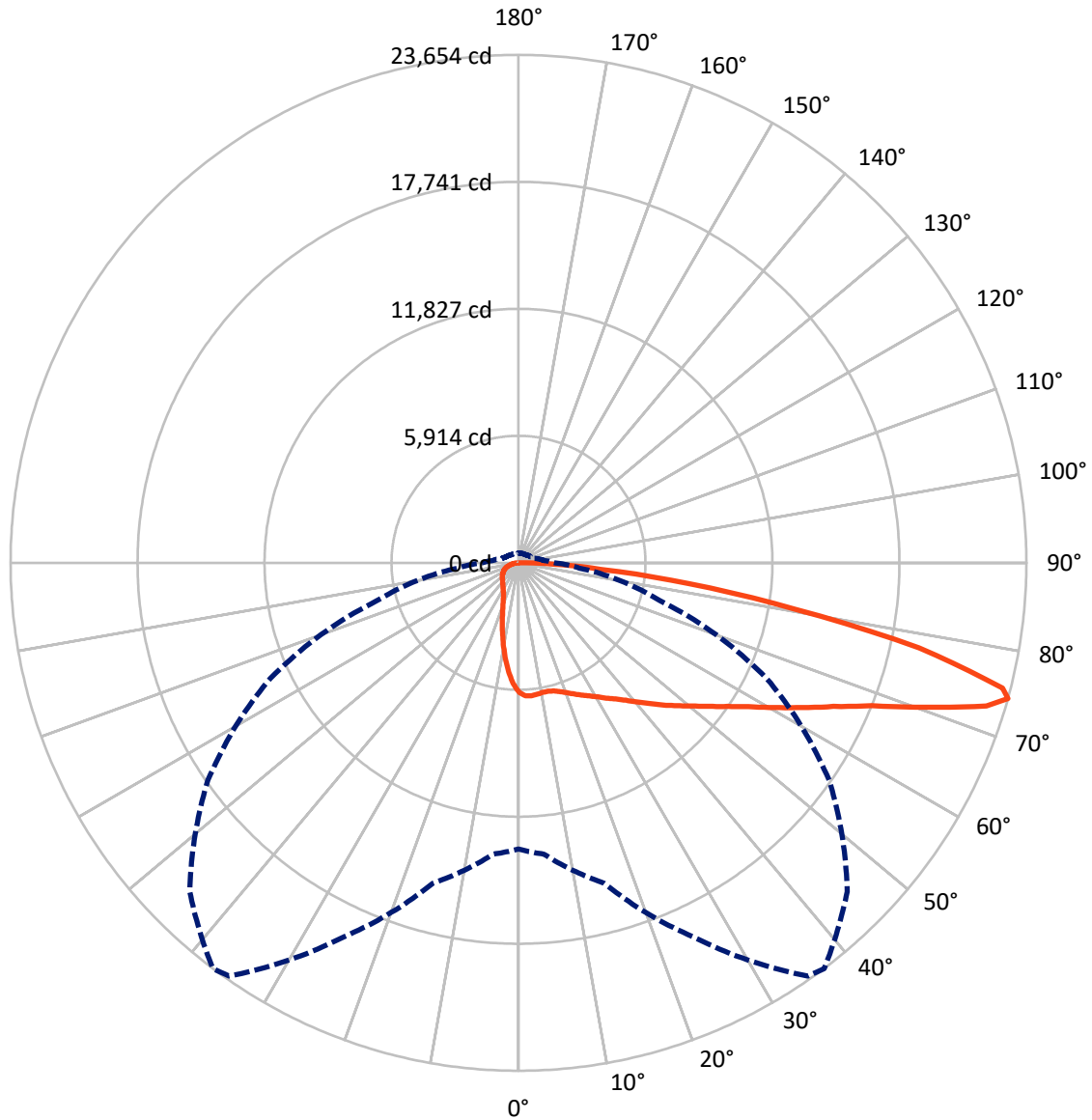
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.8 fc
 Type IV - Short - N/A

REPORT NUMBER: P383253
CATALOG NUMBER: GLEON-SA5D-735-U-SL4

Luminous Intensity Polar Plot



— Vertical Plane Through 37-Deg Lateral - - - Horizontal Cone Through 74-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4723.2	0.0	4723.2
	% Fixture	13.8	0.0	13.8
Street Side	Lumens	29604.3	0.0	29604.3
	% Fixture	86.2	0.0	86.2
Total	Lumens	34327.5	0.0	34327.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	532.6	1.6
10°-20°	1365.3	4.0
20°-30°	2103.6	6.1
30°-40°	3059.0	8.9
40°-50°	4502.3	13.1
50°-60°	6322.6	18.4
60°-70°	8002.5	23.3
70°-80°	7046.5	20.5
80°-90°	1393.2	4.1
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°	34327.5	100.0
0°-180°	34327.5	100.0

Coefficient of Utilization



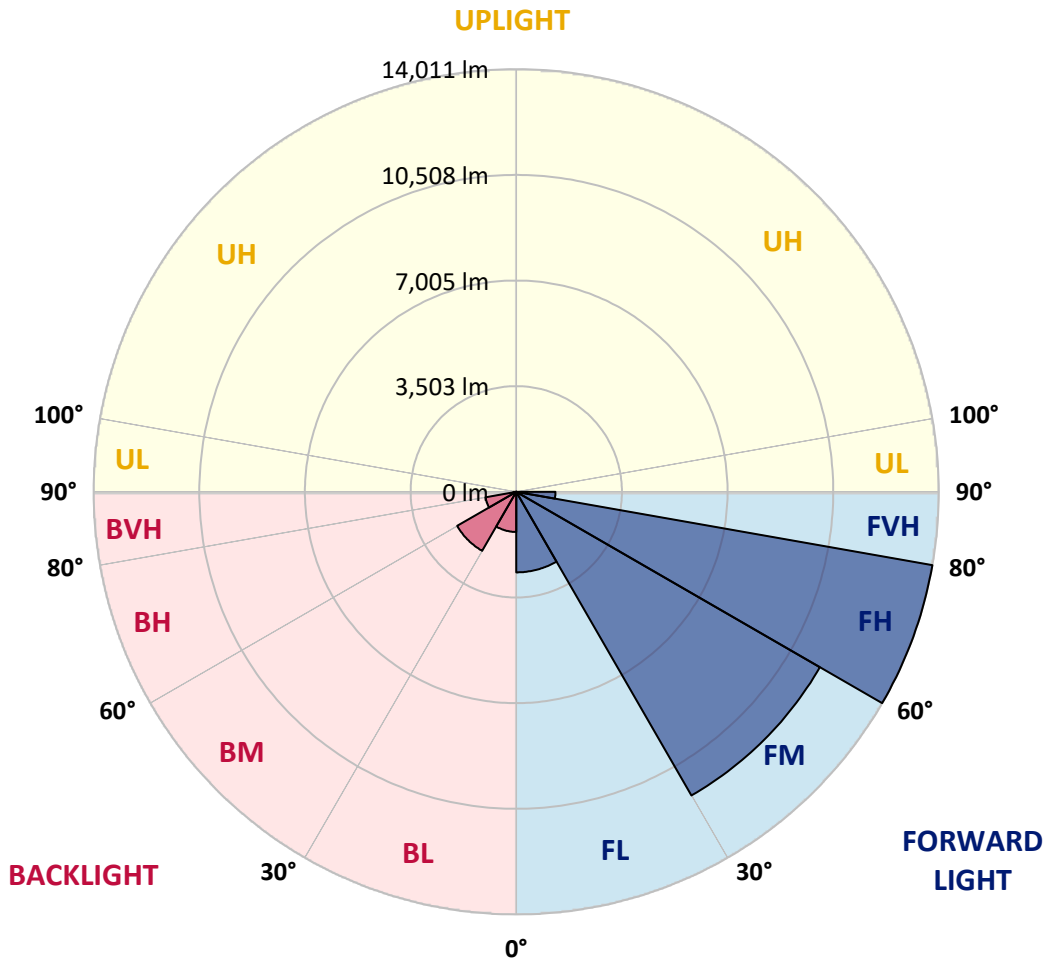
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2671.1	7.8			
FM (30°-60°)	11623.6	33.9			
FH (60°-80°)	14010.7	40.8			G5
FVH (80°-90°)	1298.9	3.8			G5
BL (0°-30°)	1330.4	3.9	B3/2500		
BM (30°-60°)	2260.2	6.6	B2/2500		
BH (60°-80°)	1038.2	3.0	B3/2500		G3/2500
BVH (80°-90°)	94.4	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Short





REPORT NUMBER: P383253

CATALOG NUMBER: GLEON-SA5D-735-U-SL4

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	37°	45°	55°	65°	75°	85°
0°	6048.4	6048.4	6048.4	6048.4	6048.4	6048.4	6048.4	6048.4	6048.4	6048.4	6048.4
2.5°	6255.2	6256.4	6255.2	6245.5	6222.5	6203.2	6187.4	6164.4	6113.7	6075.0	6017.0
5°	6314.4	6307.1	6302.3	6284.1	6247.9	6226.1	6195.9	6152.4	6068.9	5991.5	5897.3
7.5°	6286.5	6278.2	6267.3	6245.5	6204.4	6186.2	6143.9	6087.1	5986.7	5885.1	5749.7
10°	6200.8	6198.3	6193.5	6188.6	6153.6	6139.1	6100.3	6039.9	5940.8	5817.4	5659.1
12.5°	6105.2	6111.2	6130.6	6156.0	6140.3	6133.0	6108.8	6067.7	5966.2	5833.2	5642.1
15°	6044.7	6061.7	6113.7	6180.2	6193.5	6191.1	6185.0	6158.4	6050.8	5903.3	5680.8
17.5°	6024.2	6052.0	6151.2	6261.2	6299.9	6308.3	6310.8	6264.8	6145.1	5989.1	5720.7
20°	6061.7	6096.7	6241.8	6393.0	6454.7	6459.5	6448.6	6368.8	6234.6	6062.9	5742.4
22.5°	6175.3	6206.8	6388.2	6558.7	6628.8	6636.1	6603.4	6482.5	6328.9	6150.0	5772.7
25°	6394.2	6432.9	6614.3	6784.7	6821.1	6822.3	6775.1	6625.2	6452.3	6272.1	5838.0
27.5°	6679.6	6718.2	6881.5	7048.4	7029.0	7018.2	6954.1	6804.1	6613.1	6440.2	5954.1
30°	6997.6	7039.9	7194.7	7313.2	7267.3	7245.5	7193.5	7000.0	6836.8	6669.9	6131.8
32.5°	7326.5	7365.2	7500.6	7581.6	7523.6	7514.0	7435.3	7258.8	7128.2	7020.6	6419.6
35°	7663.8	7691.7	7824.7	7870.6	7793.2	7790.8	7769.0	7607.0	7524.8	7575.6	6838.0
37.5°	8008.5	8015.7	8129.4	8131.9	8108.8	8118.5	8141.4	8039.9	8062.9	8221.3	7382.1
40°	8315.6	8334.9	8417.2	8442.6	8482.5	8516.3	8631.3	8564.7	8742.5	9023.0	8059.3
42.5°	8542.9	8580.4	8712.2	8777.5	8906.9	8960.1	9122.2	9183.8	9541.7	9962.5	8864.6
45°	8735.2	8793.3	9004.9	9139.0	9358.0	9451.0	9683.3	9890.0	10445.0	10981.9	9712.2
47.5°	8943.1	9016.9	9281.8	9538.1	9835.6	9940.7	10362.8	10672.4	11408.8	12007.3	10511.5
50°	9249.1	9306.0	9564.7	9967.4	10338.6	10474.0	11058.0	11501.8	12388.2	12984.3	11204.4
52.5°	9676.0	9654.2	9873.0	10437.7	10935.9	11102.8	11800.5	12384.6	13380.9	13868.2	11789.7
55°	10105.2	10068.9	10222.5	10929.8	11632.4	11807.7	12617.9	13270.9	14325.3	14663.9	12238.2
57.5°	10582.8	10513.9	10643.3	11484.9	12425.6	12634.9	13533.2	14212.8	15254.0	15307.2	12523.6
60°	11075.0	10981.9	11127.0	12172.9	13432.9	13679.6	14604.6	15131.9	16129.4	15822.2	12615.5
62.5°	11505.5	11440.1	11663.9	12940.8	14568.4	14839.2	15656.6	16108.9	16992.7	16036.3	12284.2
65°	11881.5	11892.4	12279.4	13804.1	15834.4	16123.3	16863.4	17313.2	17672.3	15909.3	11509.1
67.5°	12330.2	12391.8	13052.0	14940.8	17428.0	17744.9	18619.1	18626.4	18052.0	15164.5	9983.1
70°	12984.3	13111.3	14114.9	16517.5	19694.1	20129.4	20804.2	19397.9	17518.8	13145.2	7854.9
72.5°	13564.7	13801.7	15245.5	18321.7	22455.9	22786.0	22082.2	18952.9	15290.2	9851.3	4893.6
74°	13329.0	13622.8	15451.0	19210.5	23495.8	23654.2	21650.6	17654.2	12748.5	6822.3	2844.0
75°	12821.1	13140.3	15151.2	19202.0	23364.0	23275.7	20608.3	16170.5	10499.4	4653.0	1892.3
77.5°	10347.1	10684.4	12766.7	16457.1	19157.2	19073.8	15830.7	10847.7	4598.6	1526.0	961.3
80°	6015.7	6273.3	7925.0	10451.0	12917.8	13069.0	10411.2	5367.6	1809.0	857.3	651.7
82.5°	2672.3	2850.1	3828.3	5335.0	7795.7	7990.3	5452.3	2812.6	1117.3	521.2	391.8
85°	1753.4	1885.2	2324.0	2540.5	3712.2	3845.2	2668.7	2189.9	737.6	286.5	287.8
87.5°	1261.2	1388.2	1726.7	1507.9	1703.7	1613.1	1452.3	2026.6	296.2	163.2	96.7
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°	6048.4	6048.4	6048.4	6048.4	6048.4	6048.4	6048.4	6048.4	6048.4	6048.4	6048.4
2.5°	5991.5	5972.2	5928.6	5846.5	5800.5	5761.8	5697.7	5660.3	5643.3	5642.1	5649.4
5°	5842.9	5798.0	5685.6	5547.7	5437.7	5337.4	5212.8	5137.9	5084.7	5053.2	5061.7
7.5°	5669.9	5599.8	5423.2	5203.2	5026.6	4831.9	4639.7	4524.8	4435.3	4368.8	4380.9
10°	5551.4	5454.7	5197.1	4880.3	4586.5	4303.5	4038.7	3880.3	3754.5	3657.8	3665.1
12.5°	5511.5	5380.9	5024.2	4601.0	4188.6	3801.7	3455.9	3212.8	3083.4	2973.4	2981.9
15°	5517.6	5342.2	4879.1	4349.5	3830.7	3343.4	2923.8	2639.6	2464.3	2388.1	2389.3
17.5°	5522.4	5297.4	4726.8	4079.8	3476.4	2915.4	2459.5	2171.7	2006.1	1935.9	1937.2
20°	5506.7	5225.0	4538.1	3770.3	3106.4	2522.4	2081.0	1836.7	1711.0	1656.6	1656.6
22.5°	5486.1	5139.1	4325.3	3459.5	2741.3	2181.4	1810.2	1624.0	1551.4	1515.2	1514.0
25°	5495.8	5075.0	4107.7	3140.2	2405.1	1909.3	1630.0	1506.7	1458.2	1435.3	1434.1
27.5°	5547.7	5044.7	3906.9	2822.2	2111.3	1704.9	1509.1	1422.0	1390.6	1376.1	1376.1
30°	5642.1	5044.7	3697.7	2551.4	1867.0	1553.8	1416.0	1356.7	1334.9	1325.3	1325.3
32.5°	5806.5	5072.6	3495.8	2282.9	1672.3	1435.3	1338.5	1298.7	1281.7	1276.9	1276.9
35°	6089.5	5166.9	3298.7	2029.0	1515.2	1338.5	1264.9	1241.8	1229.7	1228.5	1232.2
37.5°	6487.3	5359.1	3113.7	1841.6	1403.8	1260.0	1203.2	1185.0	1177.8	1183.8	1188.7
40°	6987.9	5620.3	2945.6	1672.3	1319.3	1197.1	1146.3	1134.3	1130.6	1139.1	1146.3
42.5°	7592.5	5973.4	2807.8	1550.2	1254.0	1143.9	1097.9	1083.4	1079.8	1089.4	1099.1
45°	8246.7	6353.1	2711.0	1459.5	1203.2	1104.0	1055.6	1039.9	1032.6	1037.5	1048.4
47.5°	8841.6	6712.3	2672.3	1395.4	1154.7	1070.2	1018.2	998.8	986.7	984.3	992.8
50°	9343.4	6979.4	2690.5	1356.7	1116.1	1032.6	981.9	960.1	942.0	931.1	937.1
52.5°	9708.6	7147.6	2707.4	1339.8	1085.8	991.5	942.0	921.4	897.3	879.1	879.1
55°	9973.4	7186.2	2669.9	1326.5	1062.9	946.8	897.3	877.9	853.7	833.2	830.8
57.5°	10077.4	7077.4	2530.8	1307.1	1047.2	904.4	850.0	835.5	815.0	790.8	789.6
60°	9937.1	6741.2	2262.4	1266.1	1026.6	869.4	802.9	793.2	783.5	760.6	759.4
62.5°	9373.7	6003.6	1915.4	1182.6	985.5	832.0	759.4	764.2	765.5	749.7	747.3
65°	8351.9	4990.3	1576.8	1073.8	923.8	787.2	714.6	737.6	750.9	748.5	744.9
67.5°	6867.0	3883.9	1336.1	958.9	842.8	725.5	666.2	692.9	703.8	712.2	709.8
70°	5096.8	2738.8	1105.2	837.9	744.9	652.9	603.4	616.7	609.4	619.1	622.7
72.5°	2841.6	1643.2	900.8	717.0	643.3	568.3	533.2	530.8	515.1	515.1	515.1
74°	1704.9	1205.6	792.0	642.1	581.7	512.7	482.4	471.5	457.1	458.3	457.1
75°	1371.2	1036.3	726.7	592.5	538.1	480.0	449.8	435.3	424.4	424.4	423.2
77.5°	865.8	787.2	585.3	471.5	430.5	395.4	374.9	355.5	355.5	354.3	353.1
80°	654.1	626.4	455.9	356.7	330.1	303.5	290.2	281.7	281.7	285.3	284.1
82.5°	448.6	471.5	320.5	249.1	235.8	216.5	214.1	215.3	211.6	206.8	205.6
85°	327.7	354.3	216.5	157.2	143.9	131.8	141.5	146.3	140.3	129.4	124.5
87.5°	125.8	232.1	116.1	65.3	60.5	52.0	60.5	62.9	67.7	53.2	54.4
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)