

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: P383251

Luminaire Tested: **GLEON-SA5D-735-U-SL3**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P383251  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-22)  
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-SL3  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
SPILL LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 36129.1 lumens  
Efficiency: N/A  
Efficacy: 112.9 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B3 - U0 - G5

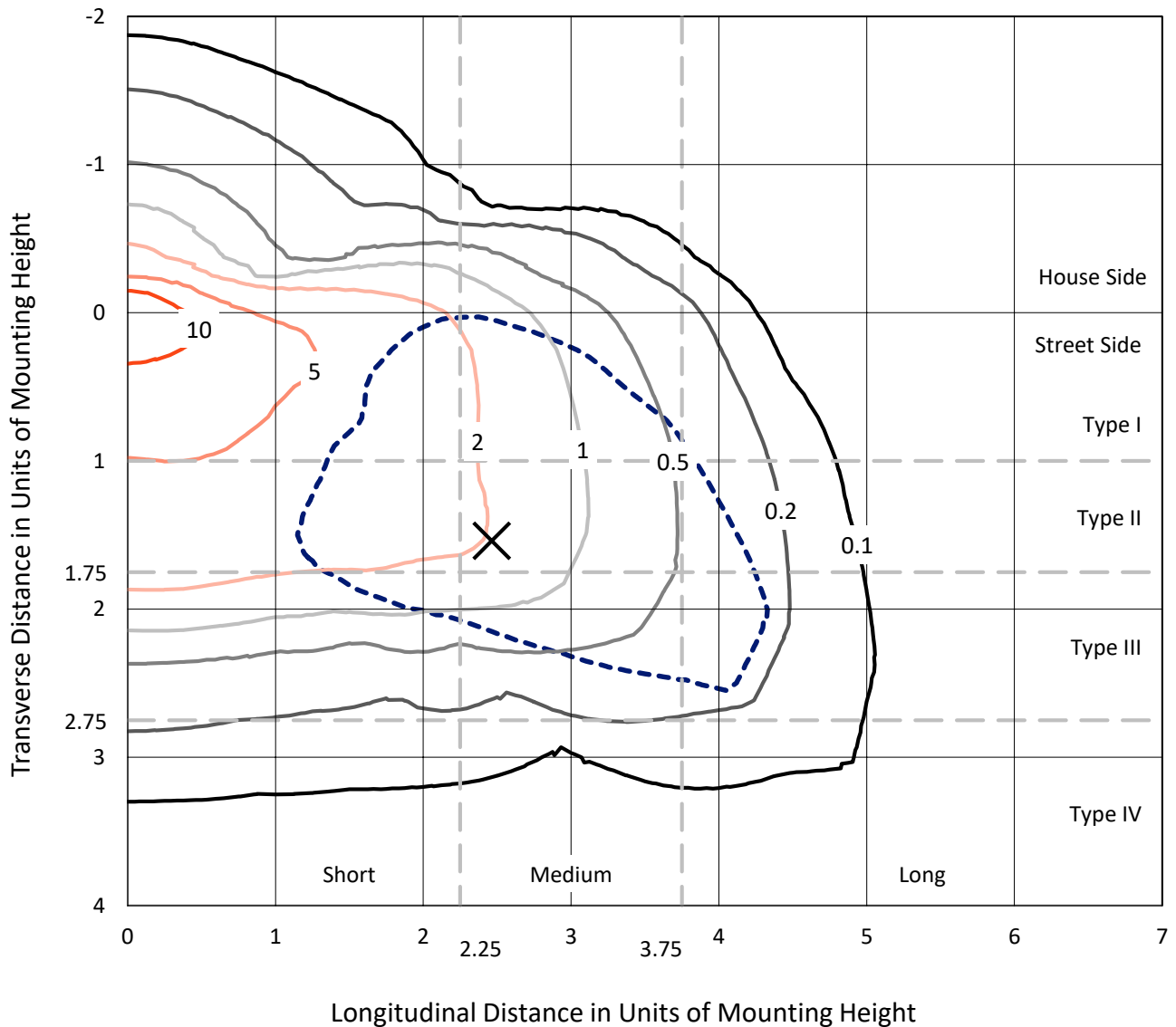
Input Watts (W): 320  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

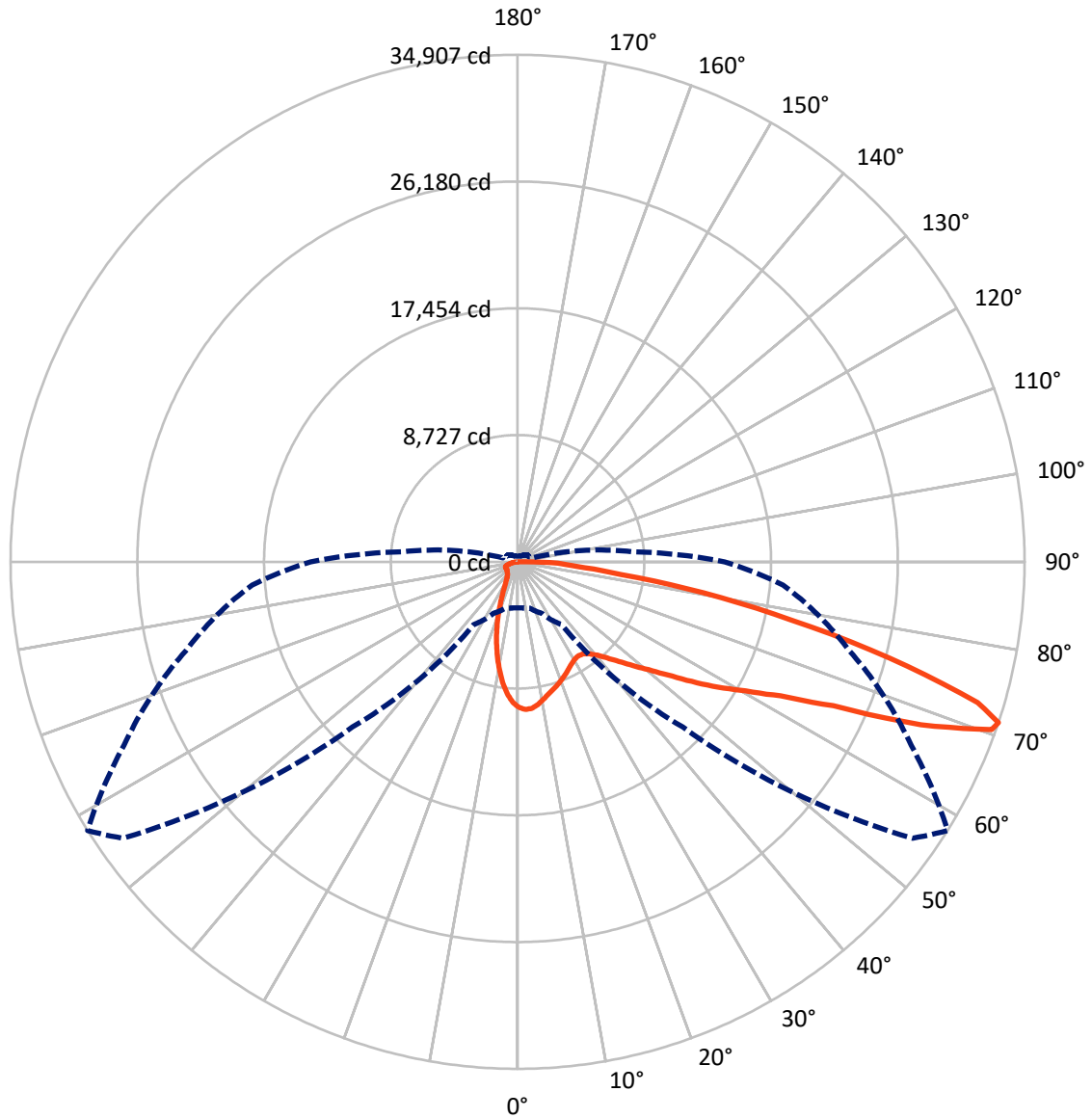
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral      - - - Horizontal Cone Through 71-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5401.6	0.0	5401.6
	% Fixture	15.0	0.0	15.0
<b>Street Side</b>	Lumens	30727.6	0.0	30727.6
	% Fixture	85.0	0.0	85.0
<b>Total</b>	Lumens	36129.1	0.0	36129.1
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	863.6	2.4
10°-20°	1920.3	5.3
20°-30°	2440.5	6.8
30°-40°	3108.7	8.6
40°-50°	4408.2	12.2
50°-60°	6821.9	18.9
60°-70°	9287.2	25.7
70°-80°	6195.6	17.1
80°-90°	1083.2	3.0
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°	36129.1	100.0
0°-180°	36129.1	100.0

**Coefficient of Utilization**

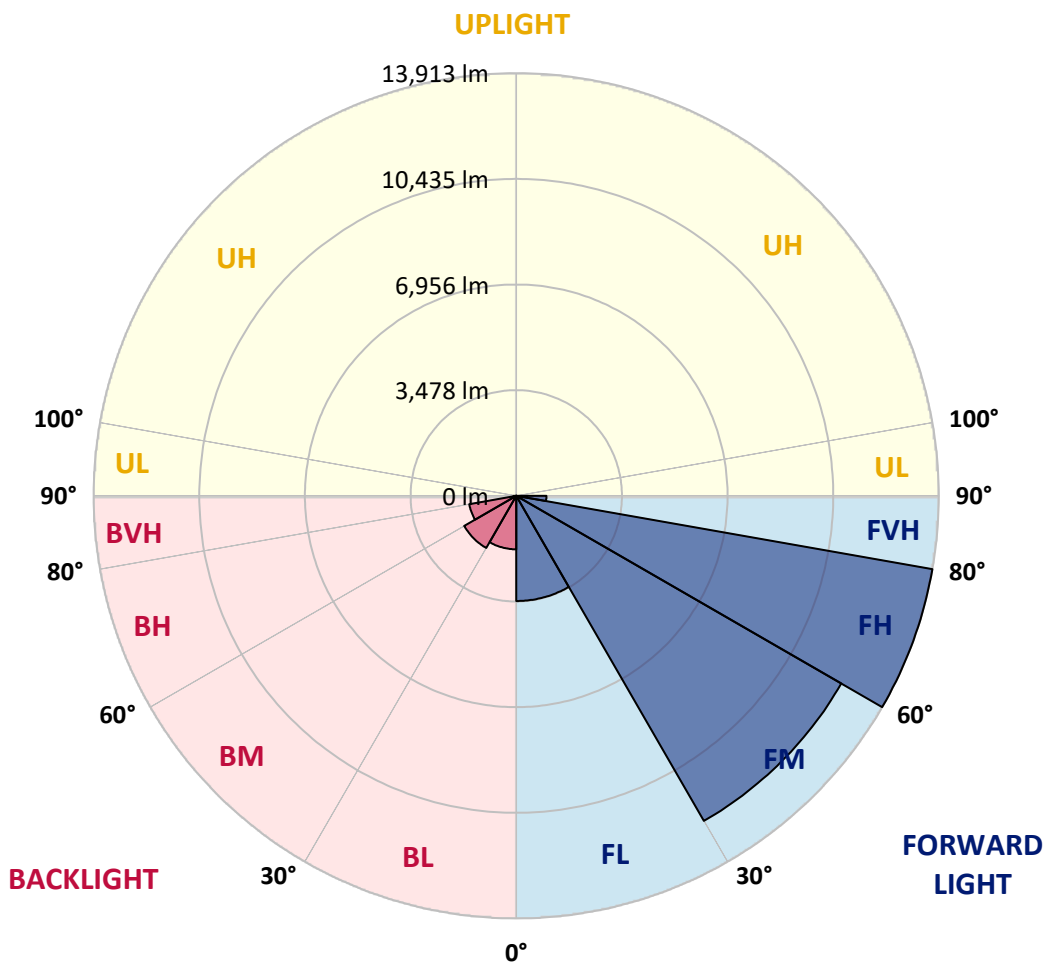


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3463.6	9.6			
FM (30°-60°)	12357.9	34.2			
FH (60°-80°)	13912.9	38.5			G5
FVH (80°-90°)	993.2	2.7			G5
BL (0°-30°)	1760.7	4.9	B3/2500		
BM (30°-60°)	1980.9	5.5	B2/2500		
BH (60°-80°)	1569.9	4.3	B3/2500		G3/2500
BVH (80°-90°)	90.0	0.2			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 III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	10010.2	10010.2	10010.2	10010.2	10010.2	10010.2	10010.2	10010.2	10010.2	10010.2	10010.2
2.5°	10275.7	10261.9	10267.0	10256.9	10233.0	10209.0	10173.8	10180.0	10131.0	10058.0	9967.4
5°	10082.0	10076.9	10114.7	10136.1	10153.7	10139.8	10129.7	10142.3	10070.6	9969.9	9812.6
7.5°	9675.4	9620.1	9667.9	9739.6	9807.6	9859.1	9927.1	9936.0	9890.6	9784.9	9578.5
10°	9097.8	9045.0	9115.4	9227.4	9363.4	9486.6	9623.8	9649.0	9657.8	9562.1	9311.7
12.5°	8498.7	8458.5	8528.9	8686.2	8911.5	9101.5	9320.5	9358.2	9436.3	9372.1	9065.1
15°	7962.6	7947.5	8033.1	8187.8	8447.1	8737.8	9053.7	9122.9	9255.1	9233.7	8872.5
17.5°	7499.4	7495.7	7561.1	7723.5	8010.4	8377.9	8788.2	8905.2	9101.5	9126.7	8713.9
20°	7154.7	7147.1	7192.4	7311.9	7607.7	8024.3	8501.2	8662.4	8945.5	9033.6	8550.3
22.5°	6969.7	6968.3	6969.7	7026.3	7267.9	7655.6	8221.8	8418.2	8793.3	8959.3	8369.1
25°	6938.2	6934.3	6906.7	6900.4	7037.6	7347.2	7945.0	8161.5	8648.5	8907.7	8196.7
27.5°	7020.0	7025.0	6988.5	6929.3	6957.1	7144.6	7704.6	7936.1	8532.7	8897.7	8077.1
30°	7189.9	7187.4	7155.9	7094.2	7040.1	7069.0	7533.4	7765.0	8454.6	8941.7	7995.3
32.5°	7377.4	7391.3	7384.9	7350.9	7270.4	7154.7	7481.8	7708.4	8432.0	9047.5	7960.1
35°	7602.6	7617.7	7663.1	7689.5	7595.1	7408.9	7592.6	7788.9	8497.5	9246.3	8016.7
37.5°	7816.6	7855.6	7982.7	8094.8	8014.2	7806.6	7887.0	8026.8	8700.1	9559.6	8169.0
40°	8063.3	8097.3	8304.9	8542.8	8530.2	8315.0	8361.6	8454.6	9057.5	10008.9	8444.6
42.5°	8306.1	8374.1	8674.9	9012.2	9109.1	8919.1	8993.3	9042.4	9560.9	10604.2	8925.3
45°	8629.6	8702.6	9120.4	9526.9	9753.5	9646.5	9764.8	9783.7	10193.9	11414.7	9623.8
47.5°	9119.2	9202.2	9689.3	10115.9	10462.0	10473.3	10668.4	10660.8	10984.3	12342.2	10503.5
50°	9881.9	10001.4	10400.4	10799.2	11219.7	11453.7	11714.2	11677.7	11931.9	13330.2	11516.6
52.5°	10881.0	10936.5	11232.2	11526.7	12049.0	12573.8	12947.6	12914.8	13006.7	14345.7	12666.9
55°	11916.8	11958.4	12080.4	12241.6	12943.8	13799.6	14589.9	14538.3	14305.5	15400.3	13803.3
57.5°	12848.1	12932.5	13016.8	13083.5	13844.8	15080.7	16270.0	16273.8	15715.0	16538.0	14977.5
60°	12992.9	13067.1	13624.6	14150.7	15386.6	16789.7	18068.4	18030.7	17173.6	17772.7	16286.3
62.5°	11485.1	11652.5	12583.8	13983.3	16871.5	19915.9	20362.7	20316.1	18918.0	19294.2	17810.4
65°	8230.7	8420.7	9544.5	11647.5	16151.7	23360.4	24503.1	23876.4	21296.5	21165.6	19595.0
67.5°	4748.4	4793.7	5280.7	6969.7	12298.2	23540.4	30819.7	29942.5	24990.3	23288.7	20468.4
70°	3511.3	3510.0	3625.8	4289.0	6655.0	19212.4	33823.7	34610.3	28879.0	23987.2	19233.8
71°	3175.2	3179.0	3308.6	3903.9	5270.6	16081.2	33185.6	34907.3	29903.4	23642.4	18340.3
72.5°	2715.8	2728.4	2908.4	3501.1	4433.7	11090.0	30437.1	33125.3	30389.2	22791.6	16942.1
75°	2060.2	2089.1	2338.3	2951.2	4052.4	5624.3	22338.5	26451.4	26996.2	20111.0	12588.8
77.5°	1470.0	1502.7	1784.6	2481.7	3852.3	4238.6	14959.9	19294.2	19866.8	12888.4	5678.4
80°	928.8	967.8	1180.5	1974.6	3619.4	4024.8	9401.1	12968.9	10833.2	4124.1	1444.7
82.5°	545.0	575.1	732.5	1290.0	2956.3	3876.2	5531.2	7188.6	4216.0	1245.9	656.9
85°	315.9	329.8	456.8	821.8	2147.0	3658.5	4063.7	4018.4	1829.8	609.1	310.9
87.5°	147.3	163.6	270.6	429.2	1191.8	2651.7	3211.7	2775.0	1137.7	285.7	146.0
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°	10010.2	10010.2	10010.2	10010.2	10010.2	10010.2	10010.2	10010.2	10010.2	10010.2	10010.2
2.5°	9923.3	9902.0	9812.6	9733.3	9650.3	9542.0	9422.4	9407.3	9334.4	9348.2	9323.0
5°	9727.0	9672.9	9457.7	9262.7	9032.3	8825.9	8601.9	8498.7	8350.2	8340.1	8302.4
7.5°	9446.4	9345.7	9012.2	8642.2	8272.1	7919.8	7571.2	7342.2	7108.1	7008.7	6999.8
10°	9130.5	8959.3	8468.5	7921.0	7387.5	6872.7	6374.4	6005.6	5673.4	5516.1	5509.7
12.5°	8831.0	8578.0	7904.7	7159.7	6429.7	5762.7	5079.4	4594.9	4178.3	4038.5	3979.4
15°	8576.8	8220.6	7356.0	6403.3	5517.3	4591.0	3813.3	3303.5	2918.4	2785.0	2759.9
17.5°	8330.1	7871.9	6793.4	5639.4	4568.4	3550.2	2771.3	2392.4	2187.3	2133.2	2131.9
20°	8084.6	7513.3	6205.7	4857.8	3650.9	2655.5	2130.6	1960.7	1891.5	1885.3	1875.2
22.5°	7806.6	7133.2	5587.8	4073.8	2849.2	2087.9	1811.0	1743.0	1734.3	1756.9	1756.9
25°	7546.0	6755.7	4961.0	3306.1	2216.2	1741.8	1617.2	1603.4	1627.2	1667.6	1671.3
27.5°	7303.1	6392.0	4349.4	2624.0	1775.7	1534.2	1482.6	1498.9	1541.7	1588.2	1589.5
30°	7103.1	6048.4	3755.3	2067.8	1500.2	1379.3	1370.5	1403.3	1449.8	1486.3	1495.1
32.5°	6948.2	5755.2	3181.5	1662.5	1320.2	1263.6	1271.1	1298.8	1327.7	1347.9	1361.7
35°	6876.5	5503.5	2651.7	1402.0	1205.6	1174.2	1184.3	1199.4	1211.9	1227.0	1238.4
37.5°	6889.1	5308.4	2178.5	1239.6	1128.8	1112.5	1112.5	1112.5	1112.5	1120.1	1121.3
40°	7006.2	5196.4	1793.4	1136.4	1077.2	1059.6	1045.8	1033.3	1023.2	1028.2	1025.7
42.5°	7305.7	5186.3	1511.4	1071.0	1035.8	1006.8	979.1	961.5	948.9	953.9	956.5
45°	7814.1	5312.2	1321.4	1024.4	996.8	952.7	917.5	898.6	889.7	906.1	908.6
47.5°	8472.3	5586.5	1205.6	990.4	960.2	902.4	864.6	847.0	849.5	873.4	879.7
50°	9320.5	6032.1	1150.3	969.1	935.1	859.5	820.5	805.4	813.0	847.0	854.5
52.5°	10251.9	6673.9	1156.6	962.8	918.7	828.1	786.6	769.0	781.6	813.0	819.3
55°	11326.6	7445.3	1261.0	971.6	894.8	807.9	758.8	728.7	738.7	767.7	772.7
57.5°	12520.9	8328.8	1471.2	969.1	864.6	789.1	730.0	684.6	692.1	709.8	714.9
60°	13764.4	9396.1	1797.1	976.6	850.8	766.5	690.9	634.3	631.8	646.9	649.4
62.5°	15256.9	10630.6	2169.7	981.7	859.5	737.5	639.3	584.0	576.4	580.2	582.7
65°	16794.8	11524.2	2029.9	961.5	887.2	713.6	594.0	534.9	521.0	518.5	519.8
67.5°	16842.7	10566.5	1423.4	921.2	898.6	701.0	560.0	493.3	470.7	461.9	460.7
70°	15104.7	8584.3	1108.7	878.4	853.3	680.9	528.6	459.3	425.3	411.6	410.3
71°	14256.4	7902.2	1050.9	857.0	819.3	660.7	514.8	444.3	409.0	394.0	391.4
72.5°	12926.2	7084.1	980.4	823.0	753.8	609.1	488.3	422.8	386.4	368.7	365.0
75°	9276.4	4632.6	841.9	733.7	624.2	485.8	427.9	380.1	348.6	327.3	324.7
77.5°	3574.2	1843.7	636.8	610.3	478.3	380.1	352.4	328.5	305.8	284.4	283.2
80°	1105.0	824.3	464.4	459.3	346.1	283.2	274.3	268.1	259.2	236.6	231.6
82.5°	590.2	473.2	319.7	297.0	226.6	188.7	198.9	201.4	202.6	178.7	176.2
85°	281.9	250.4	180.0	168.6	132.2	105.7	122.0	132.2	133.4	109.5	101.9
87.5°	134.7	130.9	84.3	64.2	49.1	35.2	42.8	52.8	57.8	41.5	36.5
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)