

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: P269721

Luminaire Tested: **GLEON-AF-10-LED-E1-SL4-7027**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269721
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24294)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-10-LED-E1-SL4-7027
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 2700K, 1050mA 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: 48639.3 lumens
Efficiency: N/A
Efficacy: 87.2 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B3 - U0 - G5

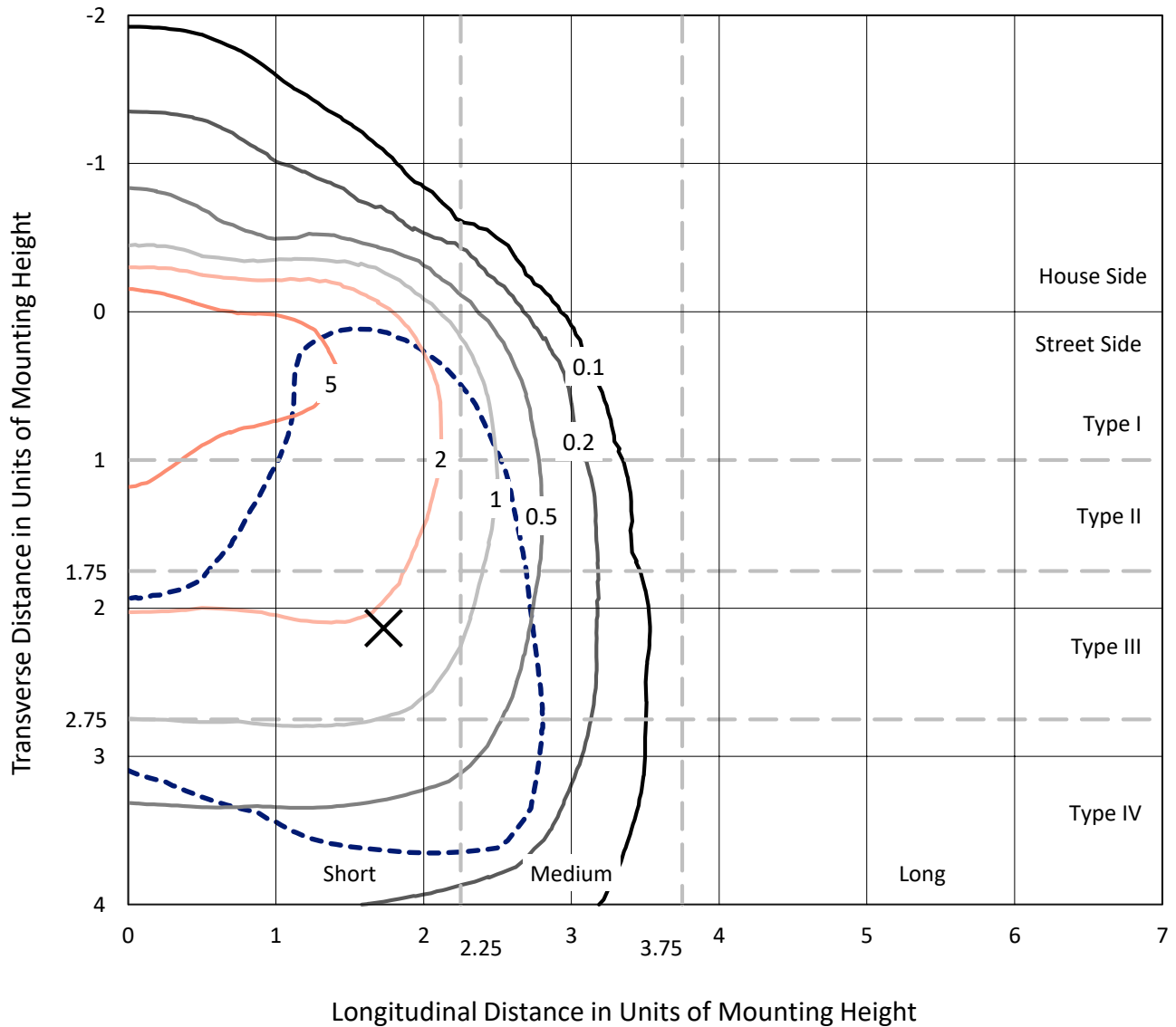
Input Watts (W): 558
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

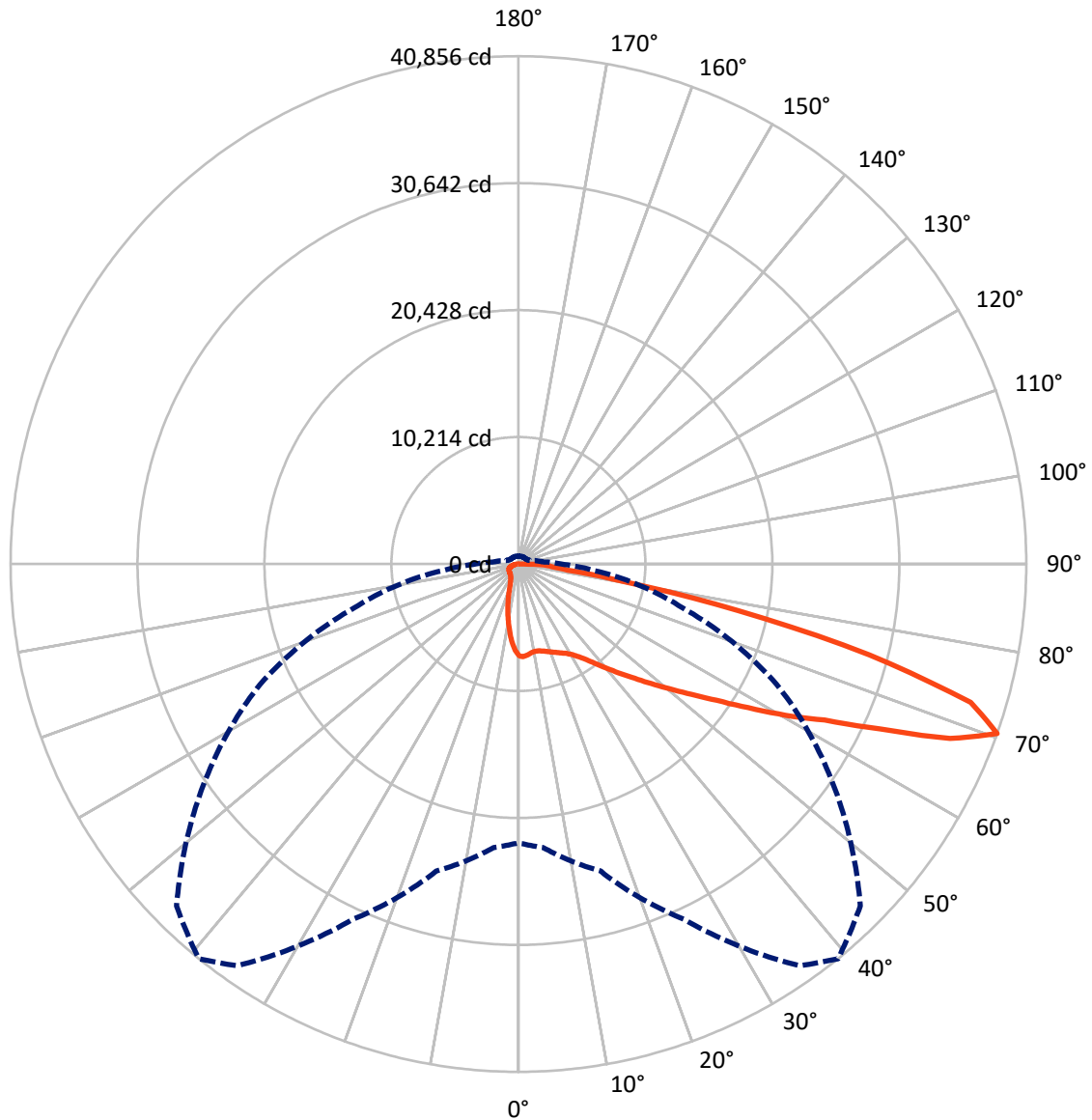
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 8.2 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5531.9	0.0	5531.9
	% Fixture	11.4	0.0	11.4
Street Side	Lumens	43107.3	0.0	43107.3
	% Fixture	88.6	0.0	88.6
Total	Lumens	48639.3	0.0	48639.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	633.7	1.3
10°-20°	1584.0	3.3
20°-30°	2466.4	5.1
30°-40°	3842.2	7.9
40°-50°	6450.3	13.3
50°-60°	10246.9	21.1
60°-70°	13668.2	28.1
70°-80°	8253.9	17.0
80°-90°	1493.8	3.1
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°	48639.3	100.0
0°-180°	48639.3	100.0



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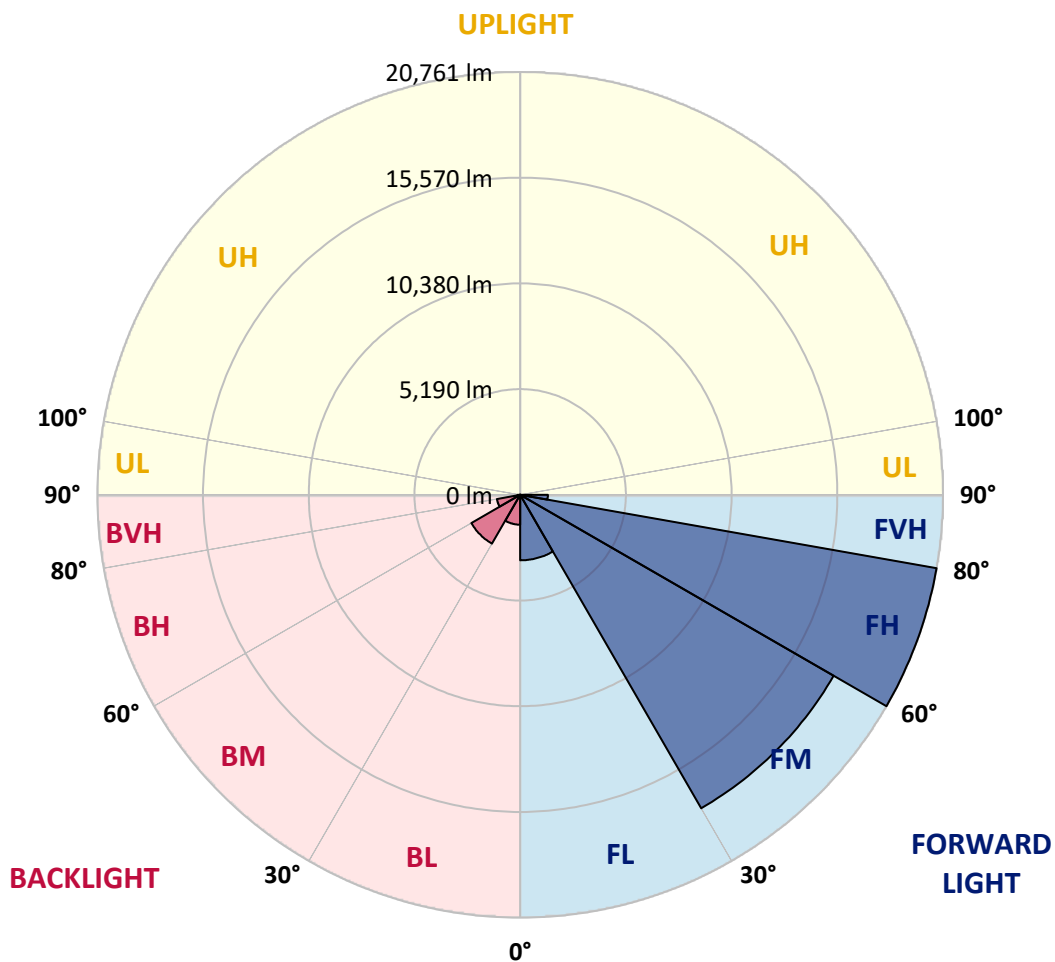
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3216.6	6.6			
FM	(30°-60°)	17770.9	36.5			
FH	(60°-80°)	20760.7	42.7			G5
FVH	(80°-90°)	1359.2	2.8			G5
BL	(0°-30°)	1467.5	3.0	B3/2500		
BM	(30°-60°)	2768.4	5.7	B3/5000		
BH	(60°-80°)	1161.4	2.4	B3/2500		G3/2500
BVH	(80°-90°)	134.6	0.3			G2/225
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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	7384.2	7384.2	7384.2	7384.2	7384.2	7384.2	7384.2	7384.2	7384.2	7384.2	7384.2
2.5°	7527.6	7525.1	7505.3	7490.5	7478.2	7473.2	7483.2	7446.1	7413.9	7374.2	7332.2
5°	7470.8	7468.2	7436.1	7406.4	7376.8	7366.9	7364.5	7297.7	7258.0	7198.7	7119.5
7.5°	7409.0	7396.6	7354.6	7305.0	7253.2	7228.4	7203.7	7117.1	7072.6	7013.2	6921.8
10°	7344.6	7329.8	7290.3	7240.8	7191.3	7154.2	7112.2	7028.1	6981.1	6936.6	6830.3
12.5°	7277.9	7265.5	7255.6	7233.3	7198.7	7166.6	7134.3	7062.7	7013.2	6961.3	6837.7
15°	7267.9	7263.1	7285.3	7300.2	7280.4	7260.6	7226.0	7164.2	7112.2	7060.3	6899.5
17.5°	7347.1	7344.6	7401.6	7441.1	7431.1	7396.6	7349.6	7280.4	7238.4	7193.7	6993.5
20°	7520.3	7532.6	7601.7	7653.7	7604.3	7554.8	7478.2	7381.7	7359.5	7339.7	7090.0
22.5°	7846.6	7859.0	7908.5	7928.3	7799.7	7727.8	7621.6	7498.0	7483.2	7498.0	7206.2
25°	8356.0	8343.6	8336.4	8262.2	8027.2	7915.9	7780.0	7651.3	7658.7	7725.5	7369.3
27.5°	9031.2	8964.4	8860.5	8638.0	8264.5	8140.9	7975.2	7856.5	7903.5	8032.1	7614.2
30°	9731.0	9656.8	9416.9	9053.4	8576.2	8440.1	8254.6	8121.1	8244.7	8447.5	7940.6
32.5°	10378.9	10369.0	10017.9	9550.5	9006.4	8887.7	8702.3	8551.4	8751.7	9060.8	8430.2
35°	11086.3	11108.4	10688.0	10126.8	9587.6	9464.0	9330.3	9216.6	9483.8	9909.1	9140.0
37.5°	11843.0	11887.5	11390.4	10757.4	10250.3	10198.4	10119.2	10069.8	10482.9	11071.3	10131.7
40°	12854.3	12809.8	12119.9	11469.5	11064.0	11061.5	11036.8	11096.0	11783.5	12589.7	11405.2
42.5°	13937.6	13806.4	12893.9	12233.7	11956.7	12040.7	12090.2	12332.6	13349.0	14434.5	12958.2
45°	15104.7	14810.4	13697.6	13042.3	12948.3	13126.4	13294.6	13821.2	15191.2	16534.1	14659.6
47.5°	16037.0	15752.6	14528.5	13890.5	14095.8	14365.2	14689.3	15522.6	17253.7	18702.8	16338.7
50°	16771.4	16585.9	15366.9	14879.6	15359.4	15774.9	16304.1	17449.0	19400.2	20814.7	17894.1
52.5°	17483.7	17345.3	16212.6	15893.6	16843.2	17416.9	18136.5	19516.4	21601.2	22892.0	19202.3
55°	18126.7	18027.7	17122.7	17157.3	18589.0	19335.8	20241.0	21870.7	23999.8	24744.3	20310.3
57.5°	18851.2	18725.1	18161.3	18742.3	20832.1	21801.4	22978.6	24516.7	26250.2	26391.2	21153.5
60°	19580.7	19471.9	19313.6	20572.4	23680.8	24699.6	25815.0	27081.2	28532.8	27669.8	21104.2
62.5°	20213.8	20226.1	20505.6	22493.9	26470.4	27649.9	29010.0	30261.4	30597.7	27892.3	19543.6
65°	21287.0	21482.4	22315.9	25214.0	30397.3	31975.1	33644.3	33444.0	31168.9	25812.5	16197.8
67.5°	22563.1	22906.8	24595.9	28839.5	35360.5	37455.1	38100.6	34163.7	28881.4	20982.9	11546.2
70°	22434.5	22906.8	25580.0	31542.4	39450.9	40855.5	38896.9	30919.1	22934.1	13707.4	6132.9
72.5°	19922.0	20597.1	23574.5	30303.5	38162.3	38038.8	33767.9	23050.2	13625.9	5504.8	2396.3
75°	15183.8	15866.4	18428.3	23940.5	30162.4	29123.8	23960.3	12733.1	5171.0	2186.0	1510.9
77.5°	8734.4	9263.6	11242.0	14681.9	19135.7	18069.8	13336.5	5663.1	2517.5	1523.3	1179.6
80°	4876.5	5171.0	6372.8	7448.4	9377.3	8595.9	5967.3	3519.0	1879.4	1105.5	910.1
82.5°	3855.3	4117.4	5153.5	4698.6	4283.1	3951.7	3427.6	3133.2	1501.1	697.4	544.1
85°	3368.1	3618.0	4362.3	3699.5	2925.5	2683.1	2784.6	3083.7	1167.3	420.3	465.0
87.5°	3120.8	3454.7	3887.4	2851.3	2277.7	2018.0	2569.4	3380.5	375.9	262.1	187.9
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°	7384.2	7384.2	7384.2	7384.2	7384.2	7384.2	7384.2	7384.2	7384.2	7384.2	7384.2
2.5°	7295.1	7255.6	7191.3	7134.3	7045.3	6998.4	6946.6	6909.5	6879.7	6855.0	6894.5
5°	7070.1	6995.9	6859.9	6714.0	6540.9	6404.9	6291.2	6184.8	6110.6	6061.1	6095.8
7.5°	6857.4	6736.3	6523.6	6259.0	5962.3	5710.0	5502.3	5319.4	5193.2	5111.5	5143.8
10°	6736.3	6585.5	6256.5	5841.0	5403.3	5010.1	4683.8	4401.9	4206.5	4095.3	4112.5
12.5°	6706.7	6511.3	6056.3	5485.1	4886.5	4340.0	3880.0	3489.3	3214.9	3071.3	3076.3
15°	6728.8	6479.0	5868.3	5143.8	4387.1	3697.1	3123.3	2648.6	2329.6	2166.4	2163.7
17.5°	6765.9	6454.4	5670.5	4775.2	3880.0	3078.9	2438.3	1973.3	1691.5	1560.4	1550.6
20°	6805.5	6414.7	5448.0	4377.1	3353.4	2505.2	1909.1	1545.5	1367.5	1295.8	1290.9
22.5°	6862.4	6380.2	5218.0	3956.8	2836.5	2040.2	1570.2	1325.4	1231.5	1194.4	1189.4
25°	6953.9	6362.9	4973.0	3519.0	2371.5	1706.3	1367.5	1216.7	1162.2	1137.6	1135.1
27.5°	7107.2	6387.6	4743.1	3093.7	1993.2	1481.2	1253.8	1162.2	1122.7	1100.5	1098.0
30°	7305.0	6464.3	4500.8	2690.6	1699.0	1328.0	1184.5	1125.1	1093.1	1070.8	1070.8
32.5°	7633.9	6592.8	4246.1	2341.9	1488.8	1221.7	1132.7	1093.1	1065.7	1048.5	1046.0
35°	8118.6	6835.3	4008.6	2052.5	1337.8	1145.0	1088.0	1058.5	1038.6	1028.7	1028.7
37.5°	8823.4	7218.5	3798.5	1844.8	1246.4	1093.1	1046.0	1023.8	1011.4	1011.4	1011.4
40°	9770.5	7747.7	3627.9	1706.3	1194.4	1056.0	1013.8	996.6	989.2	991.6	991.6
42.5°	10940.3	8435.3	3514.0	1609.9	1169.8	1033.7	991.6	976.7	969.5	966.9	969.5
45°	12273.3	9216.6	3501.8	1538.2	1145.0	1018.9	976.7	961.9	947.2	937.2	937.2
47.5°	13569.0	10010.4	3603.1	1513.5	1117.9	1001.5	964.4	949.6	927.3	905.1	905.1
50°	14714.0	10685.6	3739.0	1523.3	1107.9	976.7	944.7	937.2	902.6	878.0	875.4
52.5°	15624.0	11204.9	3850.3	1553.0	1117.9	959.5	920.0	922.4	885.3	858.2	855.6
55°	16353.6	11546.2	3820.8	1582.6	1139.9	949.6	897.6	902.6	873.0	845.8	845.8
57.5°	16672.5	11420.1	3491.8	1557.9	1157.3	952.1	880.3	900.1	875.4	850.7	850.7
60°	15987.6	10299.7	2876.1	1449.1	1135.1	944.7	873.0	910.1	907.6	882.9	880.3
62.5°	13915.3	8294.2	2230.6	1288.3	1058.5	907.6	853.2	907.6	934.7	927.3	924.9
65°	10725.1	5907.9	1703.8	1115.2	954.5	845.8	801.2	850.7	887.7	897.6	895.3
67.5°	6961.3	3620.3	1313.1	952.1	838.3	774.0	734.5	756.7	764.2	764.2	759.2
70°	3422.5	1948.7	1046.0	801.2	719.6	697.4	675.2	662.8	650.5	640.5	640.5
72.5°	1689.1	1273.5	860.5	677.6	620.6	610.8	605.8	591.1	581.2	568.7	563.9
75°	1248.9	1036.1	731.9	571.2	534.1	524.3	534.1	521.7	519.3	509.3	504.5
77.5°	1026.3	882.9	630.6	489.7	457.4	440.2	455.0	457.4	459.9	445.1	440.2
80°	833.4	746.9	526.8	405.6	375.9	363.5	373.4	393.2	398.2	375.9	366.0
82.5°	601.0	610.8	425.3	316.6	291.8	281.9	301.7	326.4	331.4	299.2	291.8
85°	504.5	509.3	326.4	225.0	200.3	185.5	217.6	242.4	259.7	227.5	220.1
87.5°	210.3	299.2	187.9	126.1	111.3	96.5	116.2	128.5	155.8	143.4	140.9
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)