

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: P191256

Luminaire Tested: **GLEON-AF-08-LED-E1-SL4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191256
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-08-LED-E1-SL4
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 4000K, 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: 46370.4 lumens
Efficiency: N/A
Efficacy: 104.2 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B3 - U0 - G5

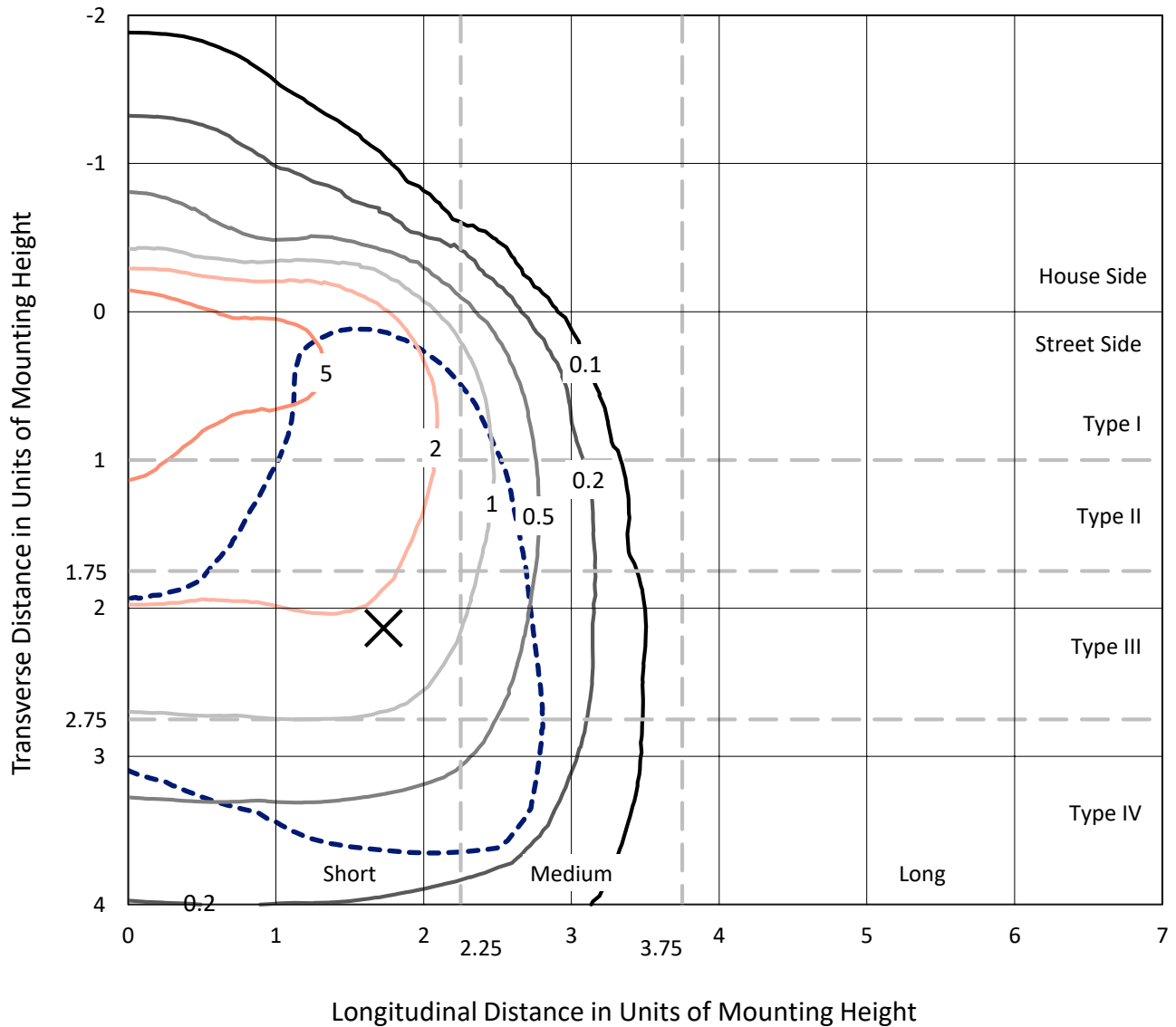
Input Watts (W): 445
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

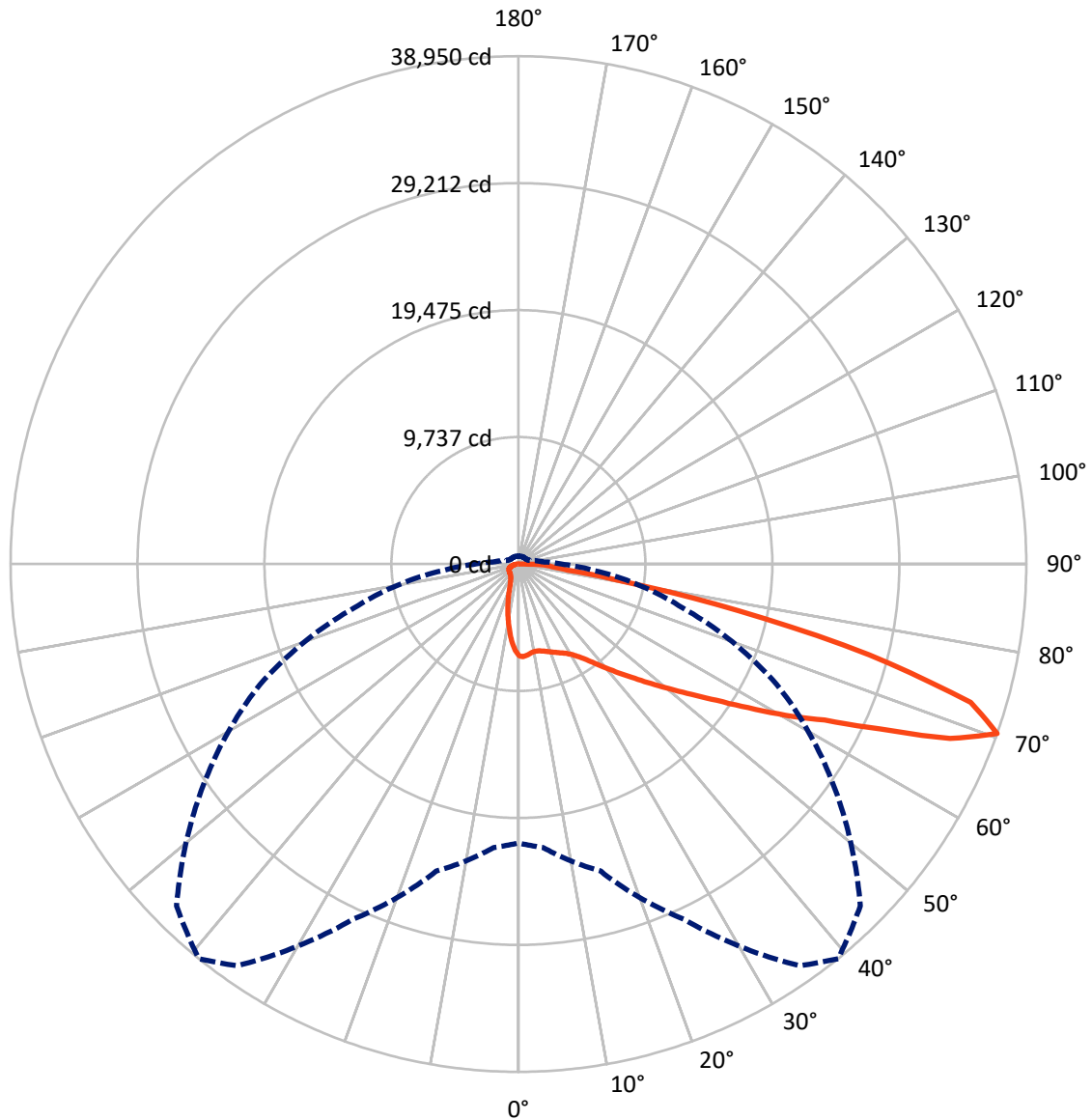
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 7.8 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	5273.9	0.0	5273.9
	% Fixture	11.4	0.0	11.4
Street Side	Lumens	41096.5	0.0	41096.5
	% Fixture	88.6	0.0	88.6
Total	Lumens	46370.4	0.0	46370.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	604.1	1.3
10°-20°	1510.1	3.3
20°-30°	2351.3	5.1
30°-40°	3662.9	7.9
40°-50°	6149.4	13.3
50°-60°	9768.9	21.1
60°-70°	13030.6	28.1
70°-80°	7868.8	17.0
80°-90°	1424.2	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°	46370.4	100.0
0°-180°	46370.4	100.0



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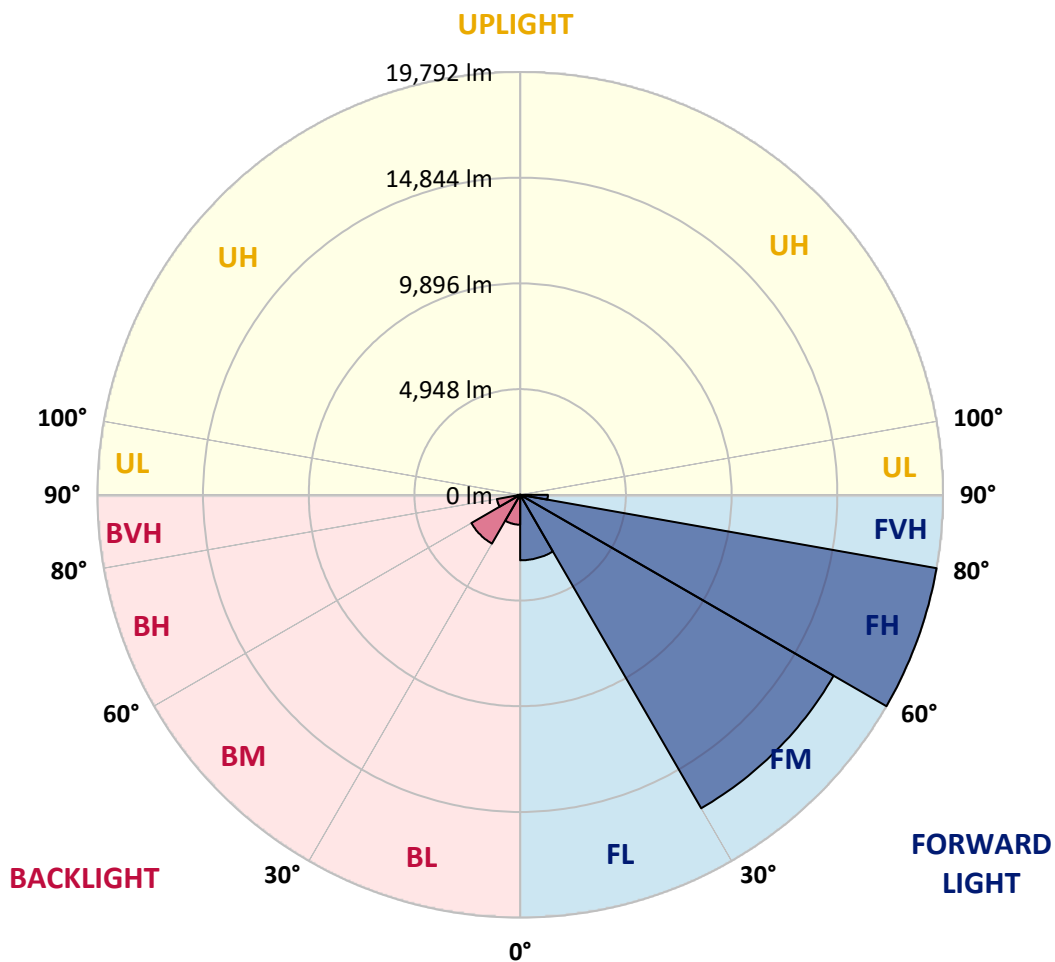
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3066.5	6.6			
FM	(30°-60°)	16941.9	36.5			
FH	(60°-80°)	19792.2	42.7			G5
FVH	(80°-90°)	1295.8	2.8			G5
BL	(0°-30°)	1399.1	3.0	B3/2500		
BM	(30°-60°)	2639.3	5.7	B3/5000		
BH	(60°-80°)	1107.2	2.4	B3/2500		G3/2500
BVH	(80°-90°)	128.4	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°	7039.7	7039.7	7039.7	7039.7	7039.7	7039.7	7039.7	7039.7	7039.7	7039.7	7039.7
2.5°	7176.5	7174.2	7155.2	7141.1	7129.4	7124.6	7134.1	7098.7	7068.1	7030.3	6990.2
5°	7122.3	7119.9	7089.3	7060.9	7032.7	7023.3	7020.9	6957.2	6919.5	6862.9	6787.5
7.5°	7063.3	7051.5	7011.4	6964.2	6914.7	6891.2	6867.7	6785.1	6742.7	6686.1	6598.9
10°	7002.0	6987.9	6950.1	6903.0	6855.8	6820.5	6780.4	6700.2	6655.4	6613.0	6511.6
12.5°	6938.4	6926.6	6917.2	6895.9	6862.9	6832.3	6801.6	6733.3	6686.1	6636.6	6518.8
15°	6929.0	6924.3	6945.4	6959.5	6940.7	6921.9	6888.9	6829.9	6780.4	6730.9	6577.7
17.5°	7004.3	7002.0	7056.2	7094.0	7084.5	7051.5	7006.7	6940.7	6900.6	6858.2	6667.3
20°	7169.5	7181.2	7247.2	7296.7	7249.6	7202.4	7129.4	7037.4	7016.1	6997.3	6759.1
22.5°	7480.6	7492.4	7539.6	7558.4	7435.8	7367.4	7266.0	7148.2	7134.1	7148.2	6870.0
25°	7966.2	7954.5	7947.4	7876.7	7652.7	7546.6	7416.9	7294.4	7301.4	7365.0	7025.6
27.5°	8609.9	8546.2	8447.2	8235.1	7879.1	7761.1	7603.2	7490.0	7534.9	7657.4	7259.0
30°	9277.0	9206.4	8977.6	8631.1	8176.1	8046.4	7869.6	7742.3	7860.1	8053.5	7570.2
32.5°	9894.8	9885.4	9550.6	9105.0	8586.3	8473.1	8296.3	8152.5	8343.5	8638.2	8037.0
35°	10569.0	10590.3	10189.5	9654.3	9140.4	9022.4	8895.2	8786.7	9041.4	9446.8	8713.6
37.5°	11290.4	11332.9	10859.0	10255.5	9772.1	9722.6	9647.2	9600.1	9993.8	10554.9	9659.0
40°	12254.7	12212.3	11554.5	10934.4	10547.9	10545.5	10521.9	10578.4	11233.8	12002.5	10873.1
42.5°	13287.3	13162.4	12292.4	11663.0	11398.9	11479.0	11526.2	11757.3	12726.2	13761.2	12353.8
45°	14400.1	14119.6	13058.7	12433.9	12344.3	12514.1	12674.4	13176.5	14482.6	15762.8	13975.8
47.5°	15288.9	15017.8	13850.8	13242.5	13438.2	13695.2	14004.0	14798.5	16448.8	17830.4	15576.6
50°	15989.1	15812.3	14650.0	14185.6	14642.9	15039.0	15543.5	16635.1	18495.3	19843.8	17059.4
52.5°	16668.1	16536.1	15456.3	15152.2	16057.5	16604.4	17290.5	18606.0	20593.4	21824.1	18306.6
55°	17281.1	17186.8	16323.9	16356.9	17721.9	18434.0	19296.8	20850.5	22880.3	23590.0	19362.8
57.5°	17971.8	17851.6	17314.1	17868.1	19860.3	20784.4	21906.7	23373.1	25025.8	25160.1	20166.8
60°	18667.3	18563.6	18412.7	19612.7	22576.2	23547.5	24610.8	25817.8	27201.8	26378.9	20119.6
62.5°	19270.9	19282.6	19549.1	21444.5	25235.6	26360.1	27656.8	28849.8	29170.4	26591.2	18631.9
65°	20294.0	20480.3	21274.8	24037.9	28979.4	30483.5	32074.9	31883.9	29715.0	24608.4	15442.2
67.5°	21510.6	21838.3	23448.5	27494.2	33711.0	35707.9	36323.2	32570.0	27534.2	20004.1	11007.6
70°	21388.0	21838.3	24386.8	30071.0	37610.5	38949.6	37082.4	29476.8	21864.2	13068.1	5846.8
72.5°	18992.7	19636.3	22474.8	28889.8	36382.2	36264.3	32192.8	21975.0	12990.2	5247.9	2284.5
75°	14475.6	15126.3	17568.7	22823.8	28755.5	27765.2	22842.6	12139.2	4929.7	2084.1	1440.5
77.5°	8327.0	8831.5	10717.6	13996.9	18243.0	17226.9	12714.5	5398.8	2400.0	1452.3	1124.5
80°	4649.1	4929.7	6075.5	7101.0	8940.0	8195.0	5688.8	3354.9	1791.8	1053.8	867.6
82.5°	3675.5	3925.4	4913.2	4479.4	4083.3	3767.4	3267.6	2987.0	1431.0	664.8	518.6
85°	3211.0	3449.2	4158.8	3526.9	2789.0	2558.0	2654.7	2939.9	1112.8	400.8	443.2
87.5°	2975.3	3293.5	3706.2	2718.3	2171.3	1923.8	2449.6	3222.8	358.3	249.9	179.2
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°	7039.7	7039.7	7039.7	7039.7	7039.7	7039.7	7039.7	7039.7	7039.7	7039.7	7039.7
2.5°	6954.8	6917.2	6855.8	6801.6	6716.8	6672.0	6622.5	6587.1	6558.8	6535.2	6573.0
5°	6740.3	6669.6	6539.9	6400.8	6235.8	6106.1	5997.7	5896.3	5825.6	5778.4	5811.5
7.5°	6537.6	6422.1	6219.3	5967.1	5684.1	5443.6	5245.6	5071.2	4950.9	4873.1	4903.7
10°	6422.1	6278.3	5964.7	5568.6	5151.3	4776.5	4465.3	4196.5	4010.3	3904.2	3920.7
12.5°	6393.7	6207.5	5773.7	5229.1	4658.6	4137.5	3699.1	3326.5	3064.9	2928.1	2932.8
15°	6415.0	6176.9	5594.5	4903.7	4182.3	3524.6	2977.6	2524.9	2220.8	2065.2	2062.9
17.5°	6450.3	6153.3	5405.9	4552.5	3699.1	2935.2	2324.6	1881.3	1612.6	1487.7	1478.2
20°	6488.1	6115.6	5193.7	4172.9	3196.9	2388.2	1820.0	1473.5	1303.8	1235.4	1230.6
22.5°	6542.3	6082.6	4974.5	3772.1	2704.2	1945.0	1497.1	1263.7	1174.0	1138.7	1134.0
25°	6629.5	6066.1	4741.1	3354.9	2260.9	1626.7	1303.8	1159.9	1108.1	1084.5	1082.2
27.5°	6775.7	6089.6	4521.9	2949.4	1900.2	1412.2	1195.3	1108.1	1070.3	1049.1	1046.8
30°	6964.2	6162.8	4290.8	2565.0	1619.6	1266.0	1129.2	1072.7	1042.1	1020.8	1020.8
32.5°	7277.9	6285.3	4047.9	2232.6	1419.2	1164.6	1079.7	1042.1	1016.1	999.6	997.3
35°	7740.0	6516.4	3821.6	1956.8	1275.4	1091.6	1037.4	1009.0	990.2	980.7	980.7
37.5°	8411.8	6881.8	3621.2	1758.8	1188.3	1042.1	997.3	976.0	964.2	964.2	964.2
40°	9314.8	7386.3	3458.6	1626.7	1138.7	1006.7	966.6	950.1	943.1	945.4	945.4
42.5°	10429.9	8041.7	3350.2	1534.8	1115.1	985.5	945.4	931.3	924.1	921.8	924.1
45°	11700.7	8786.7	3338.3	1466.4	1091.6	971.3	931.3	917.1	903.0	893.5	893.5
47.5°	12936.0	9543.5	3435.0	1442.9	1065.6	954.8	919.4	905.3	884.1	862.9	862.9
50°	14027.6	10187.2	3564.7	1452.3	1056.2	931.3	900.6	893.5	860.5	837.0	834.6
52.5°	14895.2	10682.2	3670.8	1480.5	1065.6	914.7	877.0	879.3	844.0	818.1	815.7
55°	15590.7	11007.6	3642.4	1508.9	1086.9	905.3	855.8	860.5	832.3	806.3	806.3
57.5°	15894.8	10887.3	3328.9	1485.3	1103.4	907.7	839.3	858.2	834.6	811.0	811.0
60°	15241.8	9819.3	2741.9	1381.5	1082.2	900.6	832.3	867.6	865.2	841.7	839.3
62.5°	13266.1	7907.3	2126.5	1228.3	1009.0	865.2	813.3	865.2	891.2	884.1	881.8
65°	10224.8	5632.3	1624.3	1063.3	910.0	806.3	763.8	811.0	846.4	855.8	853.4
67.5°	6636.6	3451.5	1251.9	907.7	799.2	738.0	700.2	721.4	728.4	728.4	723.7
70°	3262.9	1857.8	997.3	763.8	686.1	664.8	643.6	631.9	620.0	610.6	610.6
72.5°	1610.2	1214.1	820.4	646.0	591.8	582.4	577.6	563.4	554.0	542.3	537.6
75°	1190.6	987.9	697.9	544.6	509.2	499.8	509.2	497.5	495.1	485.7	481.0
77.5°	978.4	841.7	601.2	466.8	436.2	419.6	433.8	436.2	438.5	424.3	419.6
80°	794.5	712.0	502.2	386.7	358.3	346.6	356.0	374.8	379.6	358.3	348.9
82.5°	572.9	582.4	405.5	301.8	278.2	268.7	287.7	311.2	315.9	285.3	278.2
85°	481.0	485.7	311.2	214.5	191.0	176.9	207.5	231.1	247.6	216.9	209.8
87.5°	200.4	285.3	179.2	120.2	106.1	92.0	110.8	122.5	148.5	136.8	134.4
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)