

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: P191265

Luminaire Tested: **GLEON-AF-07-LED-E1-SL4-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191265
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-07-LED-E1-SL4-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 4000K, 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: 44893.2 lumens
Efficiency: N/A
Efficacy: 100.2 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

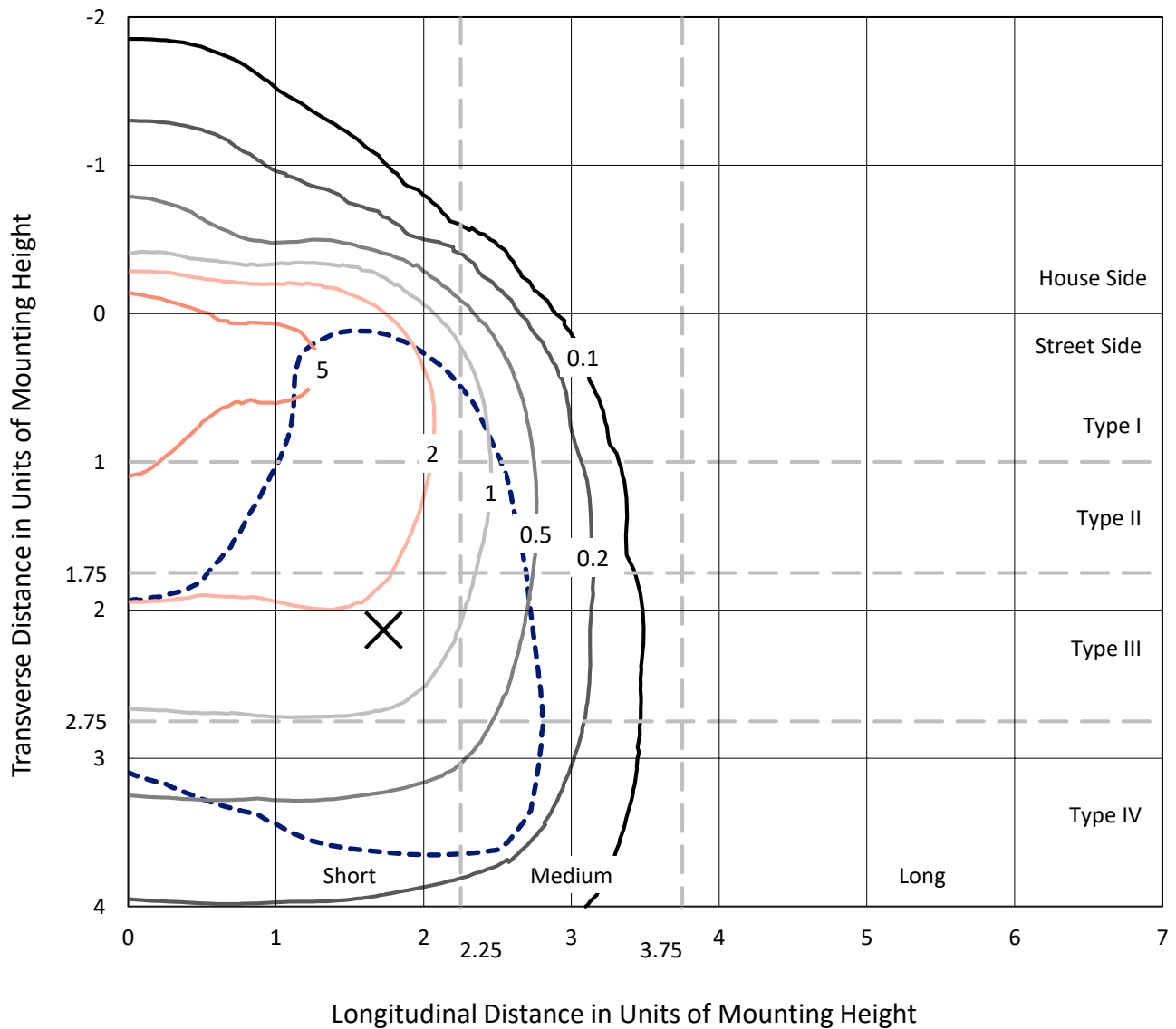
Input Watts (W): 448
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

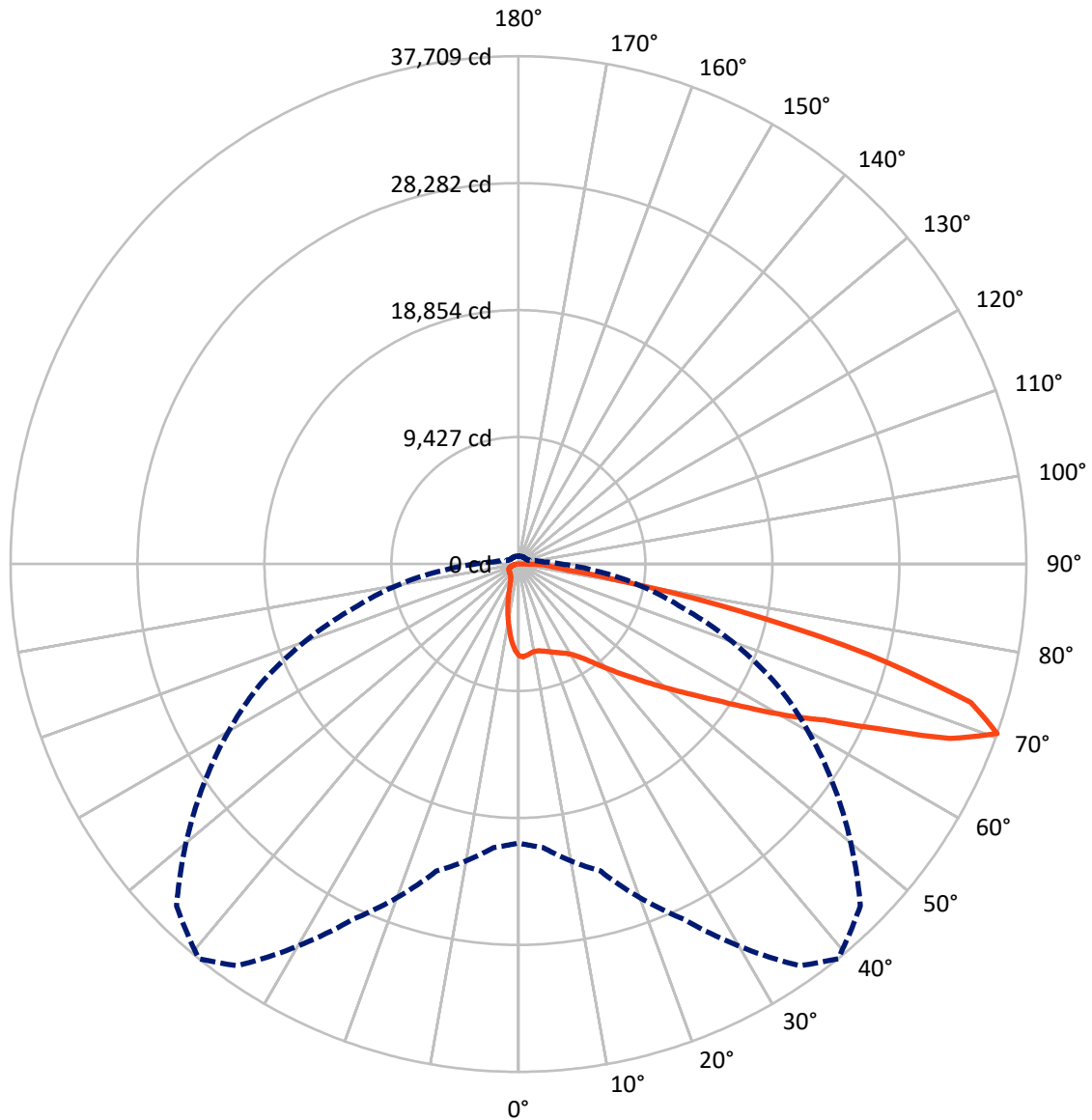
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 7.6 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	5105.9	0.0	5105.9
	% Fixture	11.4	0.0	11.4
Street Side	Lumens	39787.3	0.0	39787.3
	% Fixture	88.6	0.0	88.6
Total	Lumens	44893.2	0.0	44893.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	584.9	1.3
10°-20°	1462.0	3.3
20°-30°	2276.4	5.1
30°-40°	3546.2	7.9
40°-50°	5953.5	13.3
50°-60°	9457.7	21.1
60°-70°	12615.5	28.1
70°-80°	7618.2	17.0
80°-90°	1378.8	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°	44893.2	100.0
0°-180°	44893.2	100.0



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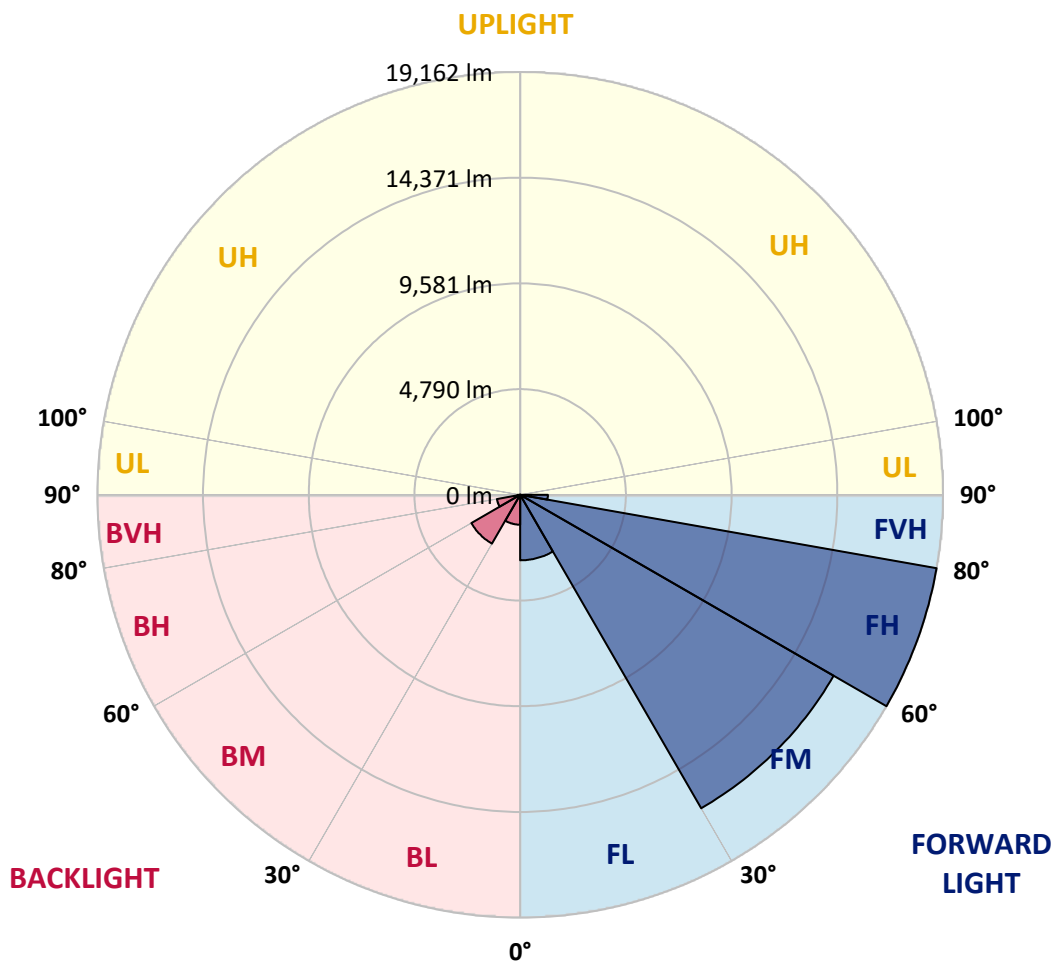
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2968.8	6.6			
FM	(30°-60°)	16402.3	36.5			
FH	(60°-80°)	19161.7	42.7			G5
FVH	(80°-90°)	1254.5	2.8			G5
BL	(0°-30°)	1354.5	3.0	B3/2500		
BM	(30°-60°)	2555.2	5.7	B3/5000		
BH	(60°-80°)	1071.9	2.4	B3/2500		G3/2500
BVH	(80°-90°)	124.3	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°	6815.5	6815.5	6815.5	6815.5	6815.5	6815.5	6815.5	6815.5	6815.5	6815.5	6815.5
2.5°	6947.9	6945.6	6927.3	6913.6	6902.3	6897.7	6906.8	6872.6	6842.9	6806.3	6767.5
5°	6895.4	6893.1	6863.4	6836.1	6808.7	6799.6	6797.2	6735.6	6699.1	6644.3	6571.2
7.5°	6838.3	6826.9	6788.1	6742.5	6694.5	6671.7	6648.9	6569.0	6527.9	6473.1	6388.6
10°	6779.0	6765.3	6728.8	6683.1	6637.4	6603.2	6564.4	6486.8	6443.5	6402.3	6304.2
12.5°	6717.3	6706.0	6696.7	6676.3	6644.3	6614.6	6584.9	6518.8	6473.1	6425.2	6311.1
15°	6708.2	6703.6	6724.2	6737.9	6719.7	6701.4	6669.4	6612.4	6564.4	6516.5	6368.1
17.5°	6781.2	6779.0	6831.5	6868.0	6858.9	6826.9	6783.5	6719.7	6680.8	6639.8	6454.8
20°	6941.0	6952.5	7016.3	7064.3	7018.7	6972.9	6902.3	6813.2	6792.7	6774.4	6543.9
22.5°	7242.3	7253.7	7299.4	7317.7	7198.9	7132.7	7034.6	6920.5	6906.8	6920.5	6651.1
25°	7712.5	7701.1	7694.2	7625.8	7408.9	7306.2	7180.7	7062.0	7068.8	7130.5	6801.8
27.5°	8335.6	8274.0	8178.1	7972.7	7628.0	7513.9	7360.9	7251.4	7294.8	7413.5	7027.8
30°	8981.6	8913.1	8691.7	8356.2	7915.6	7790.1	7618.9	7495.7	7609.8	7796.9	7329.0
32.5°	9579.5	9570.4	9246.4	8815.0	8312.8	8203.2	8032.0	7892.8	8077.7	8363.0	7781.0
35°	10232.4	10252.9	9864.9	9346.8	8849.1	8735.1	8611.8	8506.8	8753.3	9145.9	8436.1
37.5°	10930.8	10971.9	10513.1	9928.8	9460.9	9413.0	9340.0	9294.2	9675.5	10218.7	9351.3
40°	11864.3	11823.3	11186.5	10586.1	10211.8	10209.6	10186.7	10241.5	10876.0	11620.1	10526.8
42.5°	12864.0	12743.1	11900.8	11291.4	11035.8	11113.4	11159.1	11382.7	12320.8	13322.8	11960.2
45°	13941.4	13669.8	12642.6	12037.8	11951.0	12115.4	12270.6	12756.8	14021.3	15260.7	13530.6
47.5°	14801.9	14539.4	13409.6	12820.6	13010.1	13259.0	13557.9	14327.1	15924.9	17262.4	15080.3
50°	15479.8	15308.6	14183.3	13733.7	14176.5	14560.0	15048.4	16105.1	17906.0	19211.6	16516.1
52.5°	16137.2	16009.3	14963.9	14669.5	15546.0	16075.5	16739.7	18013.3	19937.5	21128.9	17723.4
55°	16730.6	16639.3	15803.9	15835.9	17157.4	17846.7	18682.2	20186.3	22151.5	22838.5	18746.0
57.5°	17399.4	17283.0	16762.6	17298.9	19227.6	20122.4	21208.8	22628.5	24228.5	24358.6	19524.3
60°	18072.7	17972.2	17826.1	18987.9	21857.1	22797.4	23826.8	24995.4	26335.3	25538.7	19478.7
62.5°	18657.0	18668.4	18926.3	20761.4	24431.6	25520.4	26775.7	27930.8	28241.1	25744.1	18038.4
65°	19647.6	19828.0	20597.1	23272.1	28056.3	29512.4	31053.1	30868.3	28768.3	23824.5	14950.2
67.5°	20825.3	21142.7	22701.5	26618.3	32637.1	34570.4	35166.2	31532.5	26657.1	19366.8	10656.9
70°	20706.7	21142.7	23610.0	29113.1	36412.4	37708.8	35901.2	28537.9	21167.7	12651.8	5660.6
72.5°	18387.6	19010.8	21758.9	27969.5	35223.3	35109.1	31167.3	21275.0	12576.5	5080.8	2211.7
75°	14014.4	14644.4	17009.0	22096.7	27839.4	26880.8	22115.0	11752.5	4772.7	2017.7	1394.6
77.5°	8061.7	8550.1	10376.2	13551.1	17661.9	16678.1	12309.4	5226.9	2323.5	1406.0	1088.7
80°	4501.1	4772.7	5882.0	6874.8	8655.2	7933.9	5507.7	3248.0	1734.7	1020.3	839.9
82.5°	3558.4	3800.4	4756.7	4336.7	3953.3	3647.4	3163.5	2891.9	1385.5	643.6	502.2
85°	3108.7	3339.2	4026.3	3414.6	2700.2	2476.5	2570.1	2846.3	1077.4	388.0	429.1
87.5°	2880.5	3188.6	3588.1	2631.7	2102.2	1862.5	2371.5	3120.1	347.0	241.9	173.5
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°	6815.5	6815.5	6815.5	6815.5	6815.5	6815.5	6815.5	6815.5	6815.5	6815.5	6815.5
2.5°	6733.3	6696.7	6637.4	6584.9	6502.8	6459.4	6411.4	6377.3	6349.9	6327.1	6363.6
5°	6525.6	6457.2	6331.6	6196.9	6037.1	5911.6	5806.7	5708.5	5640.0	5594.3	5626.3
7.5°	6329.3	6217.5	6021.2	5776.9	5503.1	5270.2	5078.5	4909.7	4793.2	4717.8	4747.5
10°	6217.5	6078.3	5774.7	5391.3	4987.2	4624.4	4323.0	4062.9	3882.5	3779.8	3795.8
12.5°	6190.1	6009.7	5589.8	5062.6	4510.2	4005.8	3581.2	3220.6	2967.3	2834.8	2839.4
15°	6210.6	5980.1	5416.3	4747.5	4049.1	3412.4	2882.8	2444.5	2150.1	1999.5	1997.2
17.5°	6244.9	5957.3	5233.7	4407.5	3581.2	2841.7	2250.5	1821.5	1561.2	1440.2	1431.1
20°	6281.4	5920.7	5028.3	4039.9	3095.0	2312.2	1762.0	1426.5	1262.2	1196.0	1191.4
22.5°	6333.9	5888.8	4816.1	3651.9	2618.0	1883.0	1449.4	1223.4	1136.7	1102.4	1097.8
25°	6418.3	5872.9	4590.1	3248.0	2188.9	1574.9	1262.2	1123.0	1072.8	1050.0	1047.7
27.5°	6559.9	5895.7	4377.8	2855.4	1839.7	1367.2	1157.3	1072.8	1036.2	1015.7	1013.4
30°	6742.5	5966.4	4154.1	2483.3	1568.1	1225.7	1093.3	1038.5	1008.8	988.3	988.3
32.5°	7046.0	6085.1	3919.0	2161.5	1374.0	1127.5	1045.4	1008.8	983.8	967.8	965.5
35°	7493.4	6308.7	3699.9	1894.5	1234.8	1056.8	1004.3	976.9	958.6	949.5	949.5
37.5°	8143.9	6662.6	3505.9	1702.7	1150.4	1008.8	965.5	944.9	933.5	933.5	933.5
40°	9018.1	7151.0	3348.4	1574.9	1102.4	974.7	935.8	919.8	913.0	915.2	915.2
42.5°	10097.6	7785.6	3243.4	1485.9	1079.6	954.1	915.2	901.6	894.8	892.4	894.8
45°	11328.0	8506.8	3232.0	1419.8	1056.8	940.4	901.6	887.9	874.2	865.1	865.1
47.5°	12524.0	9239.5	3325.6	1396.8	1031.6	924.4	890.2	876.5	855.9	835.3	835.3
50°	13580.8	9862.6	3451.1	1406.0	1022.5	901.6	871.9	865.1	833.1	810.3	808.0
52.5°	14420.7	10341.9	3553.8	1433.4	1031.6	885.6	849.0	851.4	817.1	792.1	789.7
55°	15094.0	10656.9	3526.4	1460.8	1052.2	876.5	828.6	833.1	805.7	780.6	780.6
57.5°	15388.5	10540.5	3222.9	1438.0	1068.2	878.7	812.5	830.8	808.0	785.2	785.2
60°	14756.3	9506.5	2654.6	1337.5	1047.7	871.9	805.7	839.9	837.7	814.9	812.5
62.5°	12843.6	7655.5	2058.8	1189.2	976.9	837.7	787.5	837.7	862.8	855.9	853.7
65°	9899.1	5452.8	1572.6	1029.4	881.1	780.6	739.5	785.2	819.4	828.6	826.2
67.5°	6425.2	3341.6	1212.0	878.7	773.8	714.4	677.9	698.5	705.3	705.3	700.7
70°	3159.0	1798.6	965.5	739.5	664.2	643.6	623.1	611.7	600.3	591.2	591.2
72.5°	1559.0	1175.5	794.3	625.4	572.9	563.7	559.2	545.5	536.3	525.0	520.4
75°	1152.7	956.4	675.7	527.2	493.1	483.9	493.1	481.6	479.4	470.1	465.6
77.5°	947.3	814.9	582.1	451.9	422.3	406.3	420.0	422.3	424.5	410.8	406.3
80°	769.2	689.3	486.2	374.3	347.0	335.5	344.6	362.9	367.4	347.0	337.8
82.5°	554.6	563.7	392.6	292.2	269.3	260.2	278.4	301.3	305.9	276.2	269.3
85°	465.6	470.1	301.3	207.7	184.8	171.1	200.9	223.7	239.7	210.0	203.2
87.5°	194.1	276.2	173.5	116.4	102.7	89.0	107.3	118.7	143.8	132.4	130.1
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)