

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: P192048

Luminaire Tested: **GLEON-AF-10-LED-E1-SL4-7050-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192048
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-SL4-7050-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 70 CRI, 5000K, 800mA 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: 45232 lumens
Efficiency: N/A
Efficacy: 108.0 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): 419
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

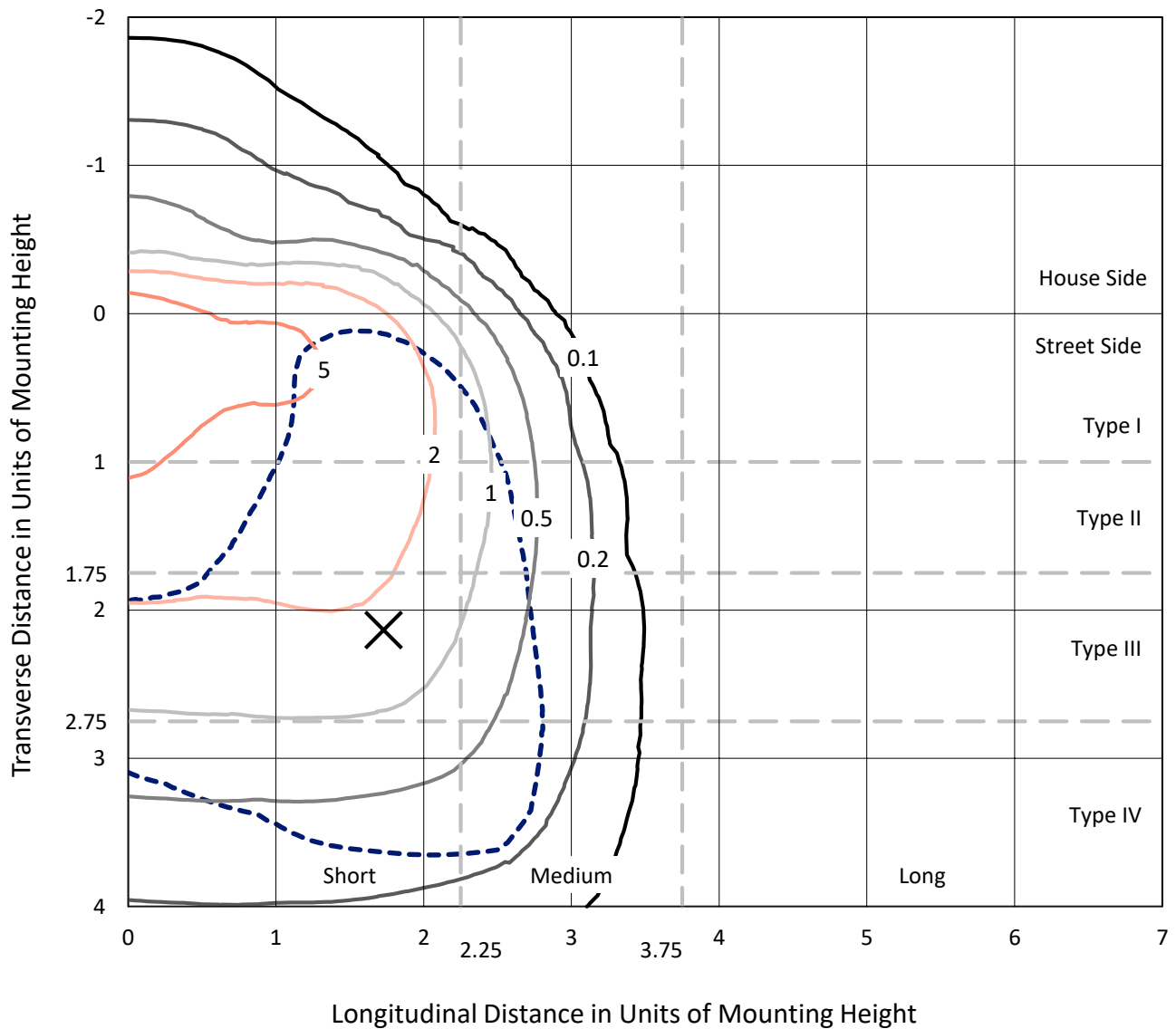


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Iso-Footcandle Lines of Horizontal Illumination

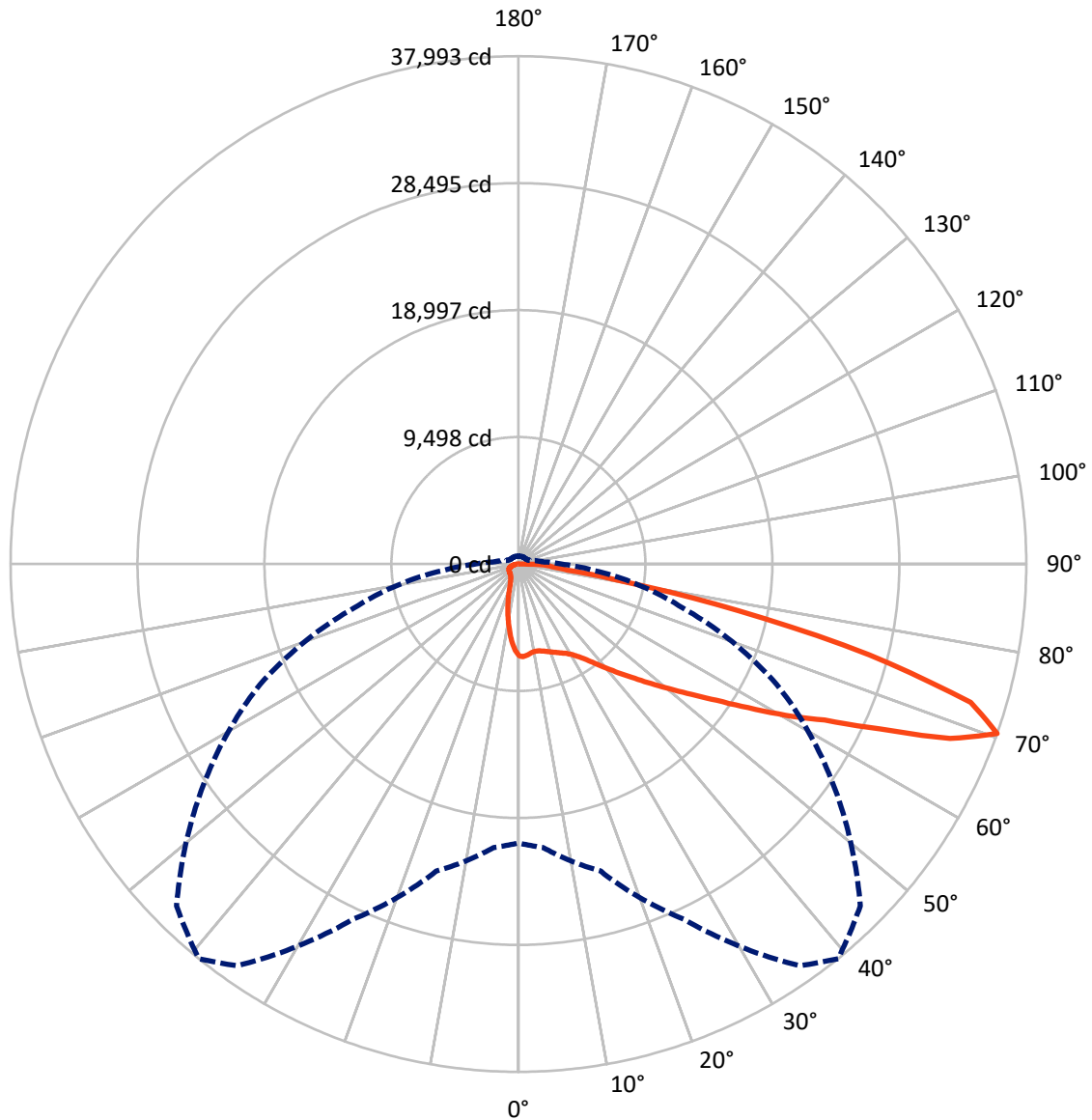
✕ Max cd
 - - - 1/2 Max cd



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	5144.4	0.0	5144.4
	% Fixture	11.4	0.0	11.4
Street Side	Lumens	40087.6	0.0	40087.6
	% Fixture	88.6	0.0	88.6
Total	Lumens	45232.0	0.0	45232.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	589.3	1.3
10°-20°	1473.0	3.3
20°-30°	2293.6	5.1
30°-40°	3573.0	7.9
40°-50°	5998.5	13.3
50°-60°	9529.0	21.1
60°-70°	12710.7	28.1
70°-80°	7675.7	17.0
80°-90°	1389.2	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°	45232.0	100.0
0°-180°	45232.0	100.0



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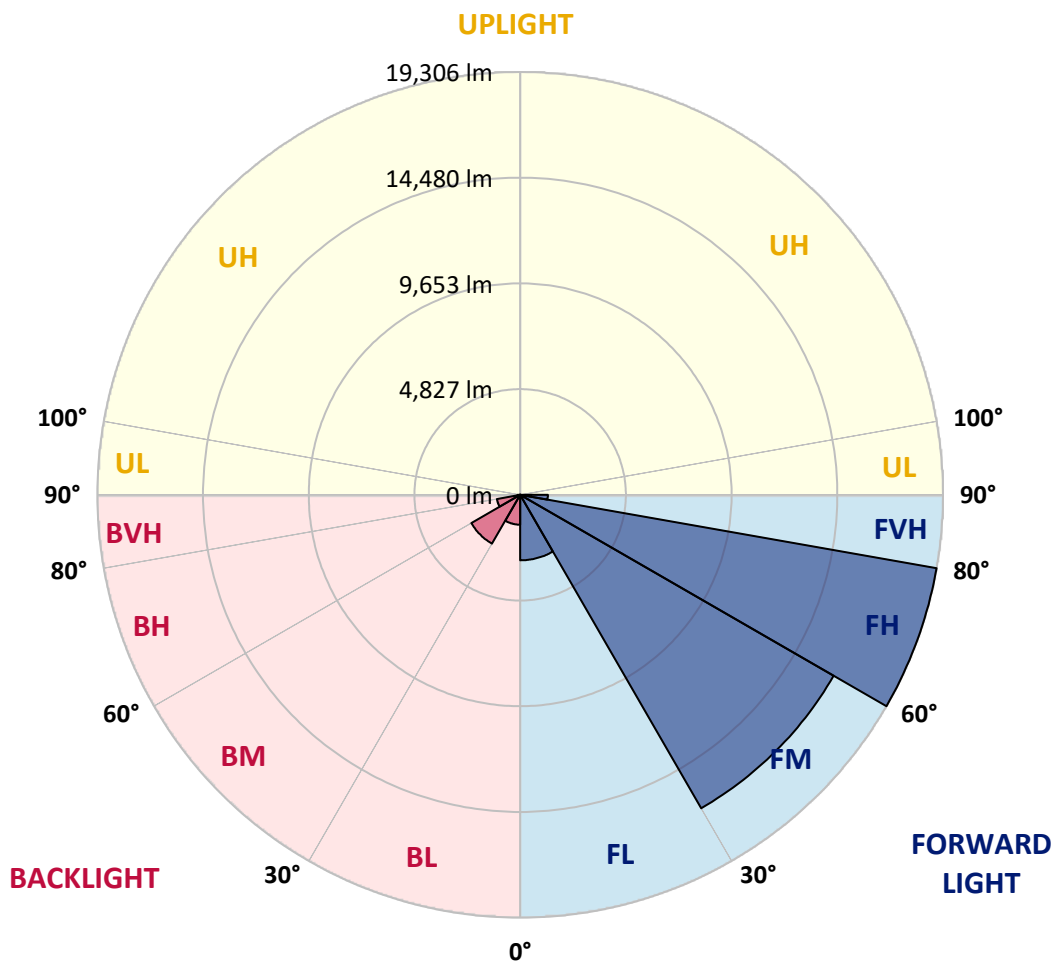
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2991.2	6.6			
FM	(30°-60°)	16526.0	36.5			
FH	(60°-80°)	19306.3	42.7			G5
FVH	(80°-90°)	1264.0	2.8			G5
BL	(0°-30°)	1364.7	3.0	B3/2500		
BM	(30°-60°)	2574.5	5.7	B3/5000		
BH	(60°-80°)	1080.0	2.4	B3/2500		G3/2500
BVH	(80°-90°)	125.2	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°	6866.9	6866.9	6866.9	6866.9	6866.9	6866.9	6866.9	6866.9	6866.9	6866.9	6866.9
2.5°	7000.3	6998.0	6979.6	6965.8	6954.3	6949.7	6958.9	6924.4	6894.5	6857.7	6818.6
5°	6947.4	6945.1	6915.2	6887.6	6860.0	6850.8	6848.5	6786.4	6749.6	6694.4	6620.9
7.5°	6889.9	6878.4	6839.3	6793.3	6745.0	6722.0	6699.0	6618.6	6577.2	6522.0	6436.9
10°	6830.1	6816.3	6779.5	6733.5	6687.5	6653.0	6614.0	6535.8	6492.1	6450.7	6351.8
12.5°	6768.0	6756.5	6747.3	6726.6	6694.4	6664.5	6634.6	6568.0	6522.0	6473.7	6358.7
15°	6758.8	6754.2	6774.9	6788.7	6770.3	6751.9	6719.7	6662.2	6614.0	6565.7	6416.2
17.5°	6832.4	6830.1	6883.0	6919.8	6910.6	6878.4	6834.7	6770.3	6731.2	6689.8	6503.6
20°	6993.4	7004.9	7069.3	7117.6	7071.6	7025.6	6954.3	6864.6	6843.9	6825.5	6593.3
22.5°	7297.0	7308.5	7354.5	7372.9	7253.3	7186.6	7087.7	6972.7	6958.9	6972.7	6701.3
25°	7770.7	7759.2	7752.3	7683.3	7464.8	7361.4	7234.9	7115.3	7122.2	7184.3	6853.1
27.5°	8398.5	8336.4	8239.8	8032.9	7685.6	7570.6	7416.5	7306.2	7349.9	7469.4	7080.8
30°	9049.3	8980.3	8757.3	8419.2	7975.4	7848.9	7676.4	7552.2	7667.2	7855.8	7384.4
32.5°	9651.9	9642.7	9316.1	8881.5	8375.5	8265.1	8092.7	7952.4	8138.7	8426.1	7839.7
35°	10309.6	10330.3	9939.3	9417.3	8916.0	8801.0	8676.8	8571.0	8819.4	9214.9	8499.7
37.5°	11013.3	11054.7	10592.4	10003.7	9532.3	9484.0	9410.4	9364.4	9748.4	10295.8	9421.9
40°	11953.9	11912.5	11270.9	10666.0	10288.9	10286.6	10263.6	10318.8	10958.1	11707.8	10606.2
42.5°	12961.1	12839.3	11990.7	11376.6	11119.1	11197.3	11243.3	11468.6	12413.8	13423.4	12050.5
45°	14046.6	13772.9	12738.1	12128.6	12041.3	12206.8	12363.2	12853.1	14127.1	15375.8	13632.7
47.5°	14913.6	14649.1	13510.8	12917.4	13108.3	13359.0	13660.2	14435.2	16045.0	17392.7	15194.1
50°	15596.6	15424.1	14290.4	13837.3	14283.5	14669.8	15162.0	16226.7	18041.2	19356.6	16640.7
52.5°	16258.9	16130.1	15076.9	14780.2	15663.3	16196.8	16866.0	18149.3	20087.9	21288.4	17857.2
55°	16856.8	16764.8	15923.2	15955.4	17286.9	17981.4	18823.1	20338.6	22318.6	23010.8	18887.5
57.5°	17530.7	17413.4	16889.0	17429.5	19372.7	20274.2	21368.9	22799.3	24411.4	24542.5	19671.7
60°	18209.1	18107.9	17960.7	19131.2	22022.0	22969.5	24006.6	25184.1	26534.0	25731.4	19625.7
62.5°	18797.8	18809.3	19069.2	20918.1	24616.0	25713.0	26977.8	28141.5	28454.2	25938.4	18174.6
65°	19795.9	19977.5	20752.5	23447.8	28268.0	29735.2	31287.5	31101.2	28985.5	24004.3	15063.1
67.5°	20982.5	21302.2	22872.9	26819.2	32883.5	34831.3	35431.6	31770.4	26858.3	19513.0	10737.3
70°	20862.9	21302.2	23788.1	29332.7	36687.2	37993.4	36172.1	28753.2	21327.5	12747.3	5703.3
72.5°	18526.4	19154.2	21923.1	28180.6	35489.0	35374.1	31402.5	21435.5	12671.4	5119.1	2228.4
75°	14120.2	14754.9	17137.4	22263.4	28049.5	27083.6	22281.8	11841.2	4808.7	2032.9	1405.1
77.5°	8122.6	8614.7	10454.5	13653.3	17795.1	16803.9	12402.3	5266.3	2341.1	1416.6	1097.0
80°	4535.0	4808.7	5926.3	6926.7	8720.5	7993.8	5549.2	3272.5	1747.8	1028.0	846.3
82.5°	3585.2	3829.0	4792.6	4369.4	3983.1	3674.9	3187.4	2913.7	1395.9	648.5	505.9
85°	3132.2	3364.5	4056.7	3440.4	2720.6	2495.2	2589.5	2867.7	1085.5	390.9	432.3
87.5°	2902.2	3212.7	3615.1	2651.6	2118.0	1876.6	2389.4	3143.7	349.6	243.8	174.8
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°	6866.9	6866.9	6866.9	6866.9	6866.9	6866.9	6866.9	6866.9	6866.9	6866.9	6866.9
2.5°	6784.1	6747.3	6687.5	6634.6	6551.9	6508.2	6459.9	6425.4	6397.8	6374.8	6411.6
5°	6574.9	6505.9	6379.4	6243.7	6082.7	5956.2	5850.4	5751.6	5682.6	5636.6	5668.8
7.5°	6377.1	6264.4	6066.6	5820.6	5544.6	5310.0	5116.8	4946.7	4829.4	4753.5	4783.4
10°	6264.4	6124.1	5818.3	5431.9	5024.9	4659.2	4355.6	4093.5	3911.8	3808.3	3824.4
12.5°	6236.8	6055.1	5632.0	5100.7	4544.2	4036.0	3608.2	3244.9	2989.6	2856.2	2860.8
15°	6257.5	6025.2	5457.2	4783.4	4079.7	3438.1	2904.5	2463.0	2166.3	2014.5	2012.2
17.5°	6292.0	6002.2	5273.2	4440.7	3608.2	2863.1	2267.5	1835.2	1573.0	1451.1	1441.9
20°	6328.8	5965.4	5066.2	4070.5	3118.4	2329.6	1775.4	1437.3	1271.7	1205.0	1200.4
22.5°	6381.7	5933.2	4852.4	3679.5	2637.8	1897.3	1460.3	1232.6	1145.3	1110.8	1106.2
25°	6466.8	5917.1	4624.7	3272.5	2205.4	1586.8	1271.7	1131.5	1080.9	1057.9	1055.6
27.5°	6609.4	5940.1	4410.8	2876.9	1853.6	1377.5	1166.0	1080.9	1044.1	1023.4	1021.1
30°	6793.3	6011.4	4185.5	2502.1	1579.9	1234.9	1101.6	1046.4	1016.5	995.8	995.8
32.5°	7099.2	6131.0	3948.6	2177.8	1384.4	1136.1	1053.3	1016.5	991.2	975.1	972.8
35°	7549.9	6356.4	3727.8	1908.8	1244.1	1064.8	1011.9	984.3	965.9	956.7	956.7
37.5°	8205.3	6712.8	3532.3	1715.6	1159.1	1016.5	972.8	952.1	940.6	940.6	940.6
40°	9086.1	7205.0	3373.7	1586.8	1110.8	982.0	942.9	926.8	919.9	922.2	922.2
42.5°	10173.9	7844.3	3267.9	1497.1	1087.8	961.3	922.2	908.4	901.5	899.2	901.5
45°	11413.4	8571.0	3256.4	1430.4	1064.8	947.5	908.4	894.6	880.8	871.6	871.6
47.5°	12618.5	9309.2	3350.7	1407.4	1039.5	931.4	896.9	883.1	862.4	841.7	841.7
50°	13683.2	9937.0	3477.2	1416.6	1030.3	908.4	878.5	871.6	839.4	816.4	814.1
52.5°	14529.5	10420.0	3580.6	1444.2	1039.5	892.3	855.5	857.8	823.3	798.0	795.7
55°	15207.9	10737.3	3553.0	1471.8	1060.2	883.1	834.8	839.4	811.8	786.5	786.5
57.5°	15504.6	10620.0	3247.2	1448.8	1076.3	885.4	818.7	837.1	814.1	791.1	791.1
60°	14867.6	9578.3	2674.6	1347.6	1055.6	878.5	811.8	846.3	844.0	821.0	818.7
62.5°	12940.4	7713.2	2074.3	1198.1	984.3	844.0	793.4	844.0	869.3	862.4	860.1
65°	9973.8	5494.0	1584.5	1037.2	887.7	786.5	745.1	791.1	825.6	834.8	832.5
67.5°	6473.7	3366.8	1221.1	885.4	779.6	719.8	683.0	703.7	710.6	710.6	706.0
70°	3182.8	1812.2	972.8	745.1	669.2	648.5	627.8	616.3	604.8	595.6	595.6
72.5°	1570.7	1184.3	800.3	630.1	577.2	568.0	563.4	549.6	540.4	528.9	524.3
75°	1161.4	963.6	680.7	531.2	496.7	487.5	496.7	485.2	482.9	473.7	469.1
77.5°	954.4	821.0	586.4	455.3	425.4	409.3	423.1	425.4	427.7	413.9	409.3
80°	775.0	694.5	489.8	377.2	349.6	338.1	347.3	365.7	370.3	349.6	340.4
82.5°	558.8	568.0	395.5	294.4	271.4	262.2	280.6	303.6	308.2	278.3	271.4
85°	469.1	473.7	303.6	209.3	186.3	172.5	202.4	225.4	241.5	211.6	204.7
87.5°	195.5	278.3	174.8	117.3	103.5	89.7	108.1	119.6	144.9	133.4	131.1
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)