

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: P269646

Luminaire Tested: **GLEON-AF-09-LED-E1-SL4-7027-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269646
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-09-LED-E1-SL4-7027-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 2700K, 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: 48192.7 lumens
Efficiency: N/A
Efficacy: 83.8 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): 575
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

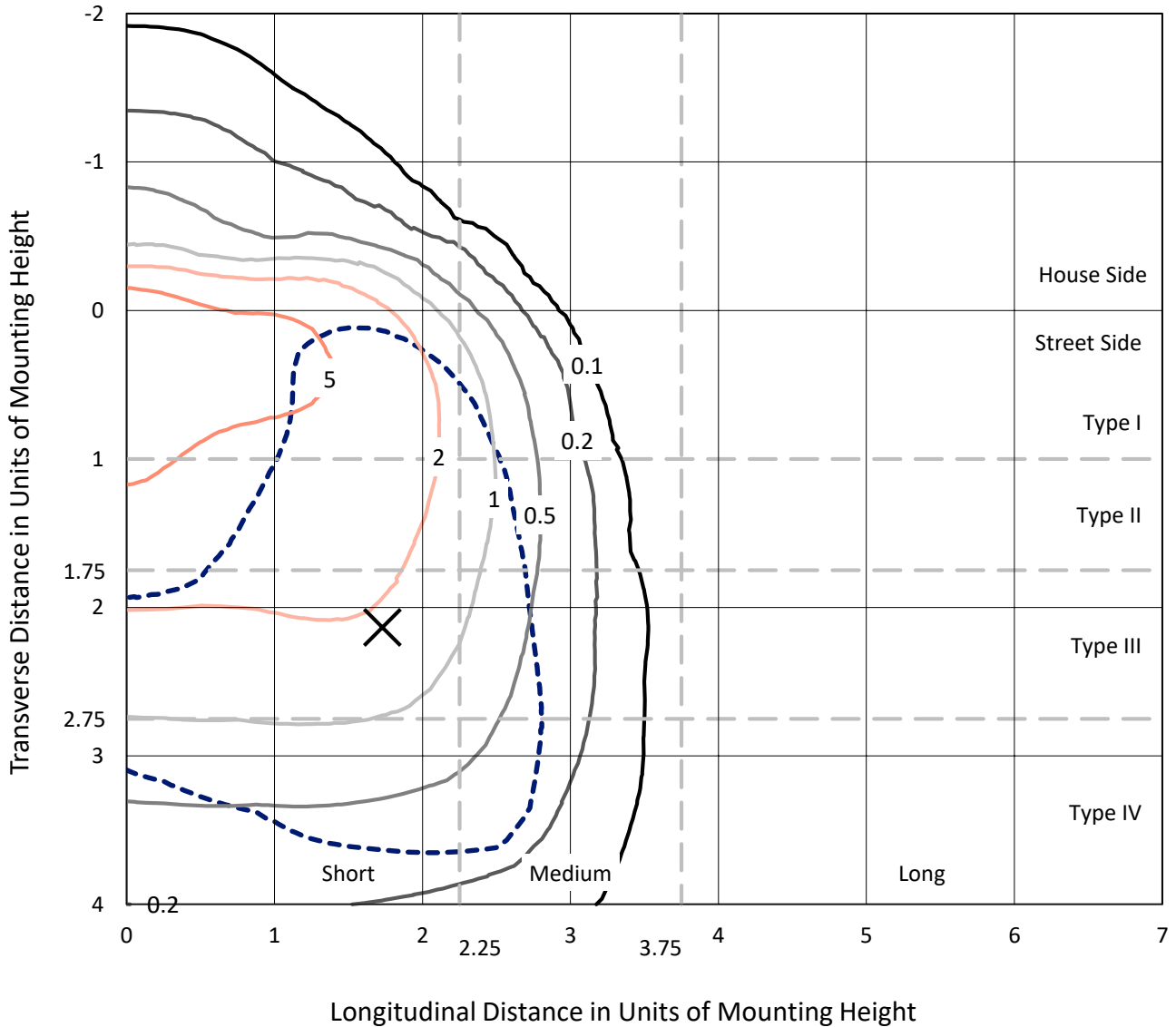


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

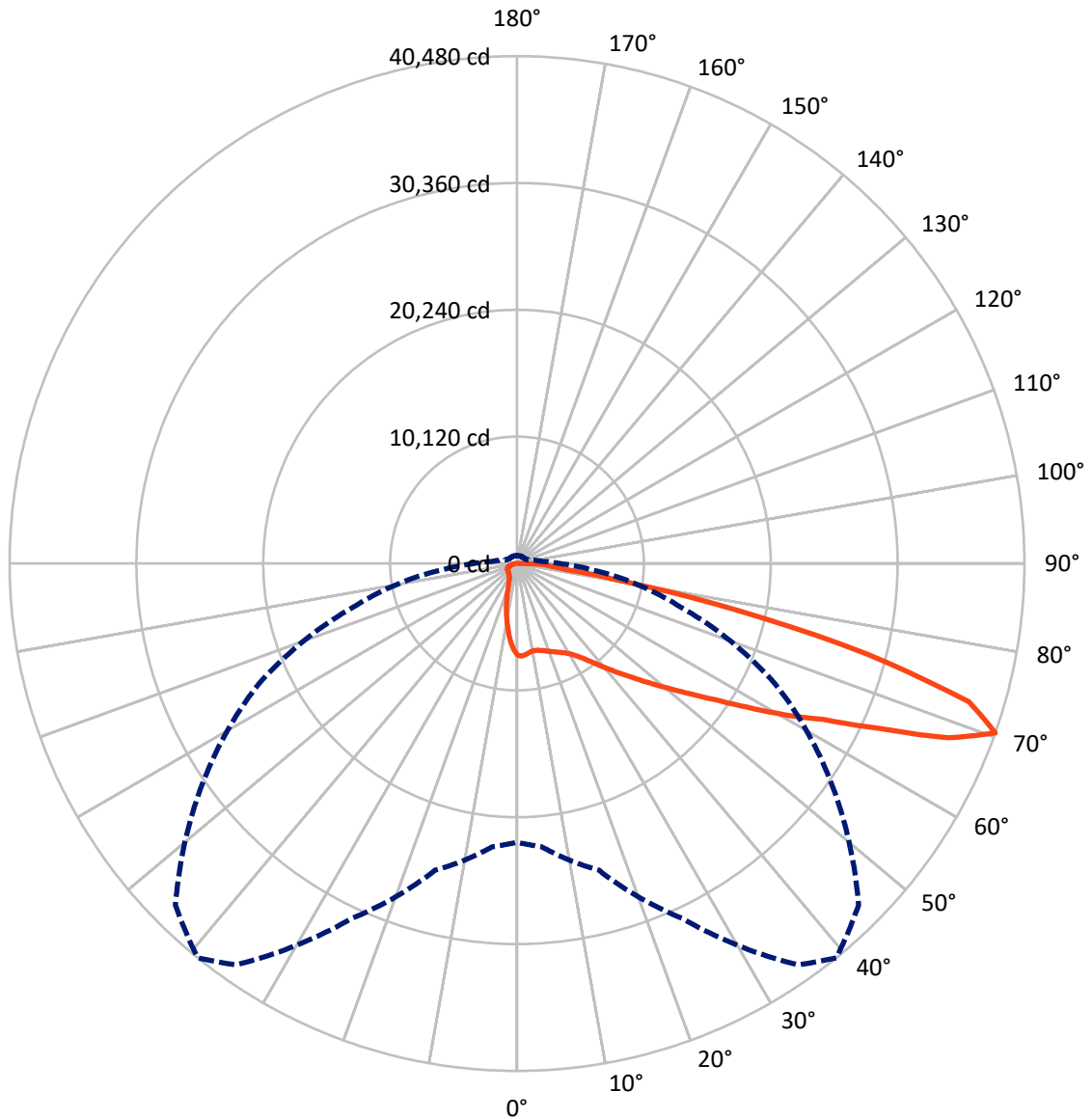


Based on 30 foot mounting height. Maximum calculated value = 8.1 fc
 Type IV - Short - Semi-Cutoff

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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	5481.1	0.0	5481.1
	% Fixture	11.4	0.0	11.4
Street Side	Lumens	42711.6	0.0	42711.6
	% Fixture	88.6	0.0	88.6
Total	Lumens	48192.7	0.0	48192.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	627.9	1.3
10°-20°	1569.5	3.3
20°-30°	2443.7	5.1
30°-40°	3806.9	7.9
40°-50°	6391.1	13.3
50°-60°	10152.8	21.1
60°-70°	13542.7	28.1
70°-80°	8178.1	17.0
80°-90°	1480.1	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°	48192.7	100.0
0°-180°	48192.7	100.0



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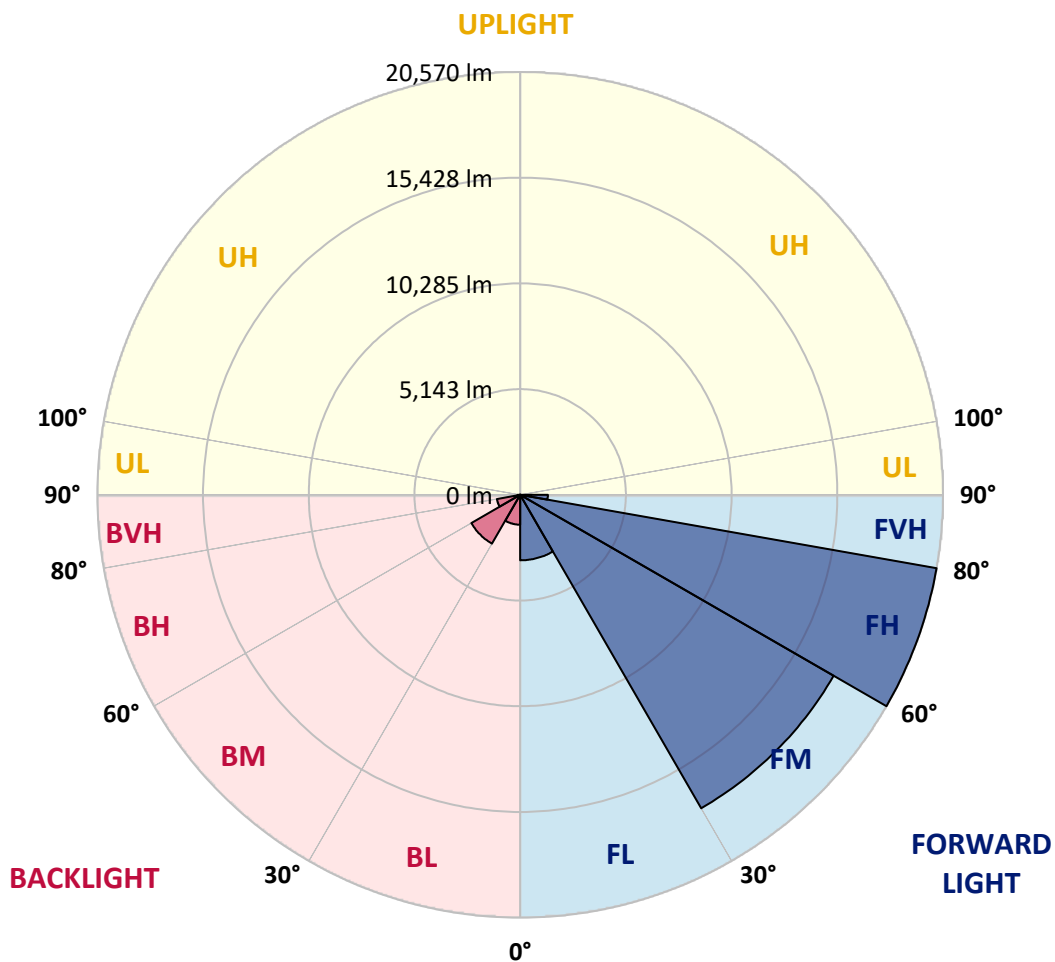
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3187.0	6.6			
FM (30°-60°)	17607.8	36.5			
FH (60°-80°)	20570.0	42.7			G5
FVH (80°-90°)	1346.7	2.8			G5
BL (0°-30°)	1454.0	3.0	B3/2500		
BM (30°-60°)	2743.0	5.7	B3/5000		
BH (60°-80°)	1150.7	2.4	B3/2500		G3/2500
BVH (80°-90°)	133.4	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°	7316.3	7316.3	7316.3	7316.3	7316.3	7316.3	7316.3	7316.3	7316.3	7316.3	7316.3
2.5°	7458.4	7456.0	7436.4	7421.7	7409.5	7404.5	7414.4	7377.7	7345.8	7306.6	7265.0
5°	7402.2	7399.7	7367.9	7338.4	7309.1	7299.3	7296.8	7230.6	7191.4	7132.6	7054.2
7.5°	7340.9	7328.6	7287.1	7238.1	7186.5	7162.0	7137.6	7051.8	7007.7	6948.8	6858.2
10°	7277.2	7262.4	7223.4	7174.3	7125.3	7088.5	7046.8	6963.7	6916.9	6872.9	6767.6
12.5°	7211.1	7198.7	7189.0	7166.9	7132.6	7100.8	7068.9	6997.8	6948.8	6897.4	6774.8
15°	7201.3	7196.3	7218.4	7233.2	7213.5	7193.8	7159.6	7098.3	7046.8	6995.5	6836.1
17.5°	7279.7	7277.2	7333.6	7372.7	7363.0	7328.6	7282.1	7213.5	7171.9	7127.7	6929.3
20°	7451.3	7463.4	7532.0	7583.5	7534.4	7485.4	7409.5	7313.9	7291.9	7272.3	7024.8
22.5°	7774.7	7786.9	7835.8	7855.5	7728.1	7657.1	7551.6	7429.2	7414.4	7429.2	7140.0
25°	8279.4	8267.1	8259.7	8186.3	7953.5	7843.2	7708.4	7581.1	7588.4	7654.5	7301.8
27.5°	8948.2	8882.1	8779.1	8558.7	8188.7	8066.2	7902.0	7784.4	7831.0	7958.4	7544.2
30°	9641.7	9568.1	9330.4	8970.4	8497.3	8362.6	8178.9	8046.6	8169.0	8370.0	7867.6
32.5°	10283.6	10273.8	9925.9	9462.7	8923.8	8806.2	8622.4	8473.0	8671.3	8977.7	8352.8
35°	10984.5	11006.5	10589.8	10033.7	9499.5	9377.0	9244.7	9132.0	9396.6	9818.0	9056.1
37.5°	11734.2	11778.2	11285.8	10658.5	10156.1	10104.8	10026.3	9977.4	10386.6	10969.7	10038.6
40°	12736.3	12692.2	12008.6	11364.2	10962.3	10960.0	10935.3	10994.1	11675.5	12474.1	11300.5
42.5°	13809.6	13679.7	12775.5	12121.3	11846.8	11930.2	11979.2	12219.4	13226.4	14302.0	12839.2
45°	14966.0	14674.4	13571.9	12922.6	12829.5	13005.8	13172.4	13694.3	15051.8	16382.3	14525.0
47.5°	15889.8	15608.1	14395.1	13762.9	13966.4	14233.5	14554.3	15380.2	17095.3	18531.1	16188.6
50°	16617.4	16433.8	15225.7	14743.1	15218.4	15630.1	16154.4	17288.9	19222.1	20623.6	17729.8
52.5°	17323.2	17186.0	16063.8	15747.6	16688.5	17257.0	17970.1	19337.3	21402.7	22681.8	19026.1
55°	17960.3	17862.2	16965.4	16999.7	18418.4	19158.4	20055.2	21669.9	23779.6	24517.0	20123.8
57.5°	18678.2	18553.1	17994.5	18570.3	20640.7	21601.3	22767.6	24291.6	26009.3	26148.9	20959.3
60°	19401.0	19293.2	19136.4	20383.5	23463.4	24473.0	25578.0	26832.6	28270.7	27415.6	20910.2
62.5°	20028.3	20040.5	20317.3	22287.3	26227.4	27396.1	28743.6	29983.4	30316.8	27636.1	19364.3
65°	21091.7	21285.2	22110.9	24982.7	30118.3	31681.6	33335.5	33136.9	30882.7	25575.6	16048.9
67.5°	22355.8	22696.5	24369.9	28574.6	35036.0	37111.3	37750.7	33850.0	28616.2	20790.3	11440.2
70°	22228.5	22696.5	25345.1	31252.8	39088.6	40480.3	38539.8	30635.3	22723.4	13581.7	6076.6
72.5°	19739.0	20408.1	23358.1	30025.2	37811.9	37689.5	33457.9	22838.7	13500.7	5454.1	2374.3
75°	15044.5	15720.7	18259.2	23720.7	29885.5	28856.4	23740.2	12616.2	5123.5	2166.1	1497.0
77.5°	8654.2	9178.6	11138.8	14547.1	18959.8	17903.8	13214.1	5611.1	2494.4	1509.3	1168.8
80°	4831.9	5123.5	6314.2	7380.1	9291.3	8517.0	5912.5	3486.7	1862.1	1095.3	901.7
82.5°	3820.0	4079.7	5106.2	4655.5	4243.9	3915.5	3396.0	3104.5	1487.4	690.9	539.1
85°	3337.3	3584.6	4322.3	3665.5	2898.7	2658.5	2759.0	3055.4	1156.5	416.5	460.7
87.5°	3092.1	3423.0	3851.8	2825.1	2256.6	1999.4	2545.7	3349.5	372.4	259.7	186.2
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°	7316.3	7316.3	7316.3	7316.3	7316.3	7316.3	7316.3	7316.3	7316.3	7316.3	7316.3
2.5°	7228.2	7189.0	7125.3	7068.9	6980.6	6934.1	6882.8	6846.0	6816.6	6792.1	6831.3
5°	7005.3	6931.7	6796.9	6652.4	6480.9	6346.0	6233.3	6128.1	6054.5	6005.4	6039.8
7.5°	6794.5	6674.4	6463.8	6201.5	5907.6	5657.5	5451.8	5270.4	5145.5	5064.6	5096.4
10°	6674.4	6525.0	6199.2	5787.5	5353.8	4964.2	4640.7	4361.5	4167.9	4057.6	4074.7
12.5°	6645.0	6451.4	6000.6	5434.7	4841.7	4300.1	3844.4	3457.2	3185.3	3043.2	3048.0
15°	6667.1	6419.6	5814.4	5096.4	4346.7	3663.1	3094.7	2624.2	2308.1	2146.4	2144.0
17.5°	6703.8	6395.2	5618.4	4731.5	3844.4	3050.6	2415.9	1955.3	1676.0	1546.2	1536.3
20°	6743.0	6355.9	5397.8	4336.8	3322.6	2482.0	1891.7	1531.4	1355.0	1283.9	1279.0
22.5°	6799.5	6321.6	5169.9	3920.4	2810.3	2021.5	1556.0	1313.3	1220.2	1183.4	1178.5
25°	6890.1	6304.5	4927.5	3486.7	2349.7	1690.7	1355.0	1205.5	1151.5	1127.2	1124.7
27.5°	7042.0	6329.0	4699.6	3065.2	1975.0	1467.7	1242.3	1151.5	1112.5	1090.4	1087.8
30°	7238.1	6404.9	4459.5	2665.9	1683.3	1315.7	1173.6	1114.8	1082.9	1061.0	1061.0
32.5°	7563.9	6532.4	4207.0	2320.4	1475.0	1210.5	1122.3	1082.9	1056.0	1038.9	1036.5
35°	8044.1	6772.4	3971.9	2033.8	1325.5	1134.5	1078.1	1048.7	1029.1	1019.2	1019.2
37.5°	8742.5	7152.2	3763.5	1828.0	1234.9	1082.9	1036.5	1014.4	1002.1	1002.1	1002.1
40°	9680.9	7676.6	3594.5	1690.7	1183.4	1046.3	1004.7	987.4	980.1	982.6	982.6
42.5°	10839.8	8357.7	3481.8	1595.1	1159.0	1024.2	982.6	967.8	960.5	958.0	960.5
45°	12160.5	9132.0	3469.6	1524.1	1134.5	1009.4	967.8	953.1	938.4	928.7	928.7
47.5°	13444.5	9918.5	3570.0	1499.5	1107.5	992.4	955.5	940.9	918.8	896.8	896.8
50°	14579.0	10587.5	3704.8	1509.3	1097.6	967.8	935.9	928.7	894.4	869.7	867.4
52.5°	15480.6	11102.1	3815.0	1538.7	1107.5	950.6	911.5	913.9	877.1	850.2	847.8
55°	16203.4	11440.2	3785.5	1568.1	1129.6	940.9	889.4	894.4	865.0	837.9	837.9
57.5°	16519.6	11315.2	3459.7	1543.6	1146.6	943.3	872.3	891.8	867.4	842.9	842.9
60°	15840.7	10205.3	2849.7	1435.9	1124.7	935.9	865.0	901.7	899.3	874.7	872.3
62.5°	13787.5	8218.1	2210.1	1276.6	1048.7	899.3	845.3	899.3	926.2	918.8	916.5
65°	10626.7	5853.6	1688.3	1105.0	945.7	837.9	793.9	842.9	879.6	889.4	886.9
67.5°	6897.4	3587.1	1301.0	943.3	830.7	767.0	727.7	749.7	757.1	757.1	752.2
70°	3391.1	1930.7	1036.5	793.9	713.1	690.9	668.9	656.8	644.4	634.7	634.7
72.5°	1673.5	1261.8	852.8	671.4	615.0	605.2	600.2	585.6	575.9	563.5	558.7
75°	1237.3	1026.7	725.3	566.0	529.2	519.5	529.2	517.1	514.5	504.8	499.8
77.5°	1016.8	874.7	624.9	485.2	453.3	436.1	450.8	453.3	455.7	441.1	436.1
80°	825.7	739.9	521.8	401.8	372.4	360.2	370.0	389.5	394.4	372.4	362.6
82.5°	595.3	605.2	421.5	313.6	289.2	279.4	299.0	323.4	328.3	296.5	289.2
85°	499.8	504.8	323.4	223.0	198.4	183.8	215.7	240.1	257.3	225.5	218.1
87.5°	208.2	296.5	186.2	125.0	110.2	95.6	115.2	127.4	154.4	142.1	139.6
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)