

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: P193706

Luminaire Tested: **GLEON-AF-08-LED-E1-SL3-8030-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193706
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24288)
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-SL3-8030-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31454 lumens
Efficiency: N/A
Efficacy: 94.2 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Medium - Non-Cutoff
BUG Rating: B3 - U0 - G4

Input Watts (W): 334
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

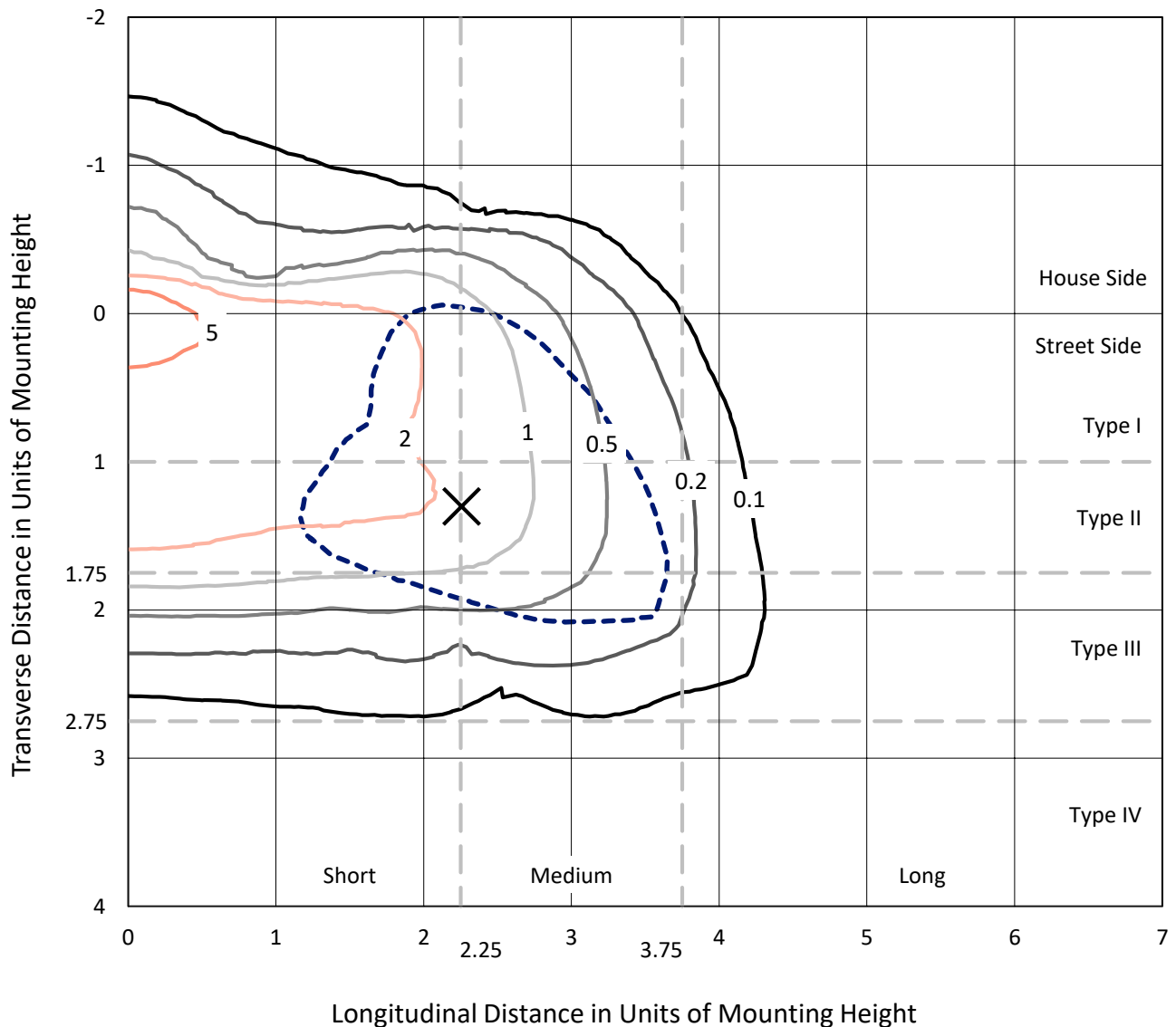


REPORT NUMBER: P193706

CATALOG NUMBER: GLEON-AF-08-LED-E1-SL3-8030-800

Iso-Footcandle Lines of Horizontal Illumination

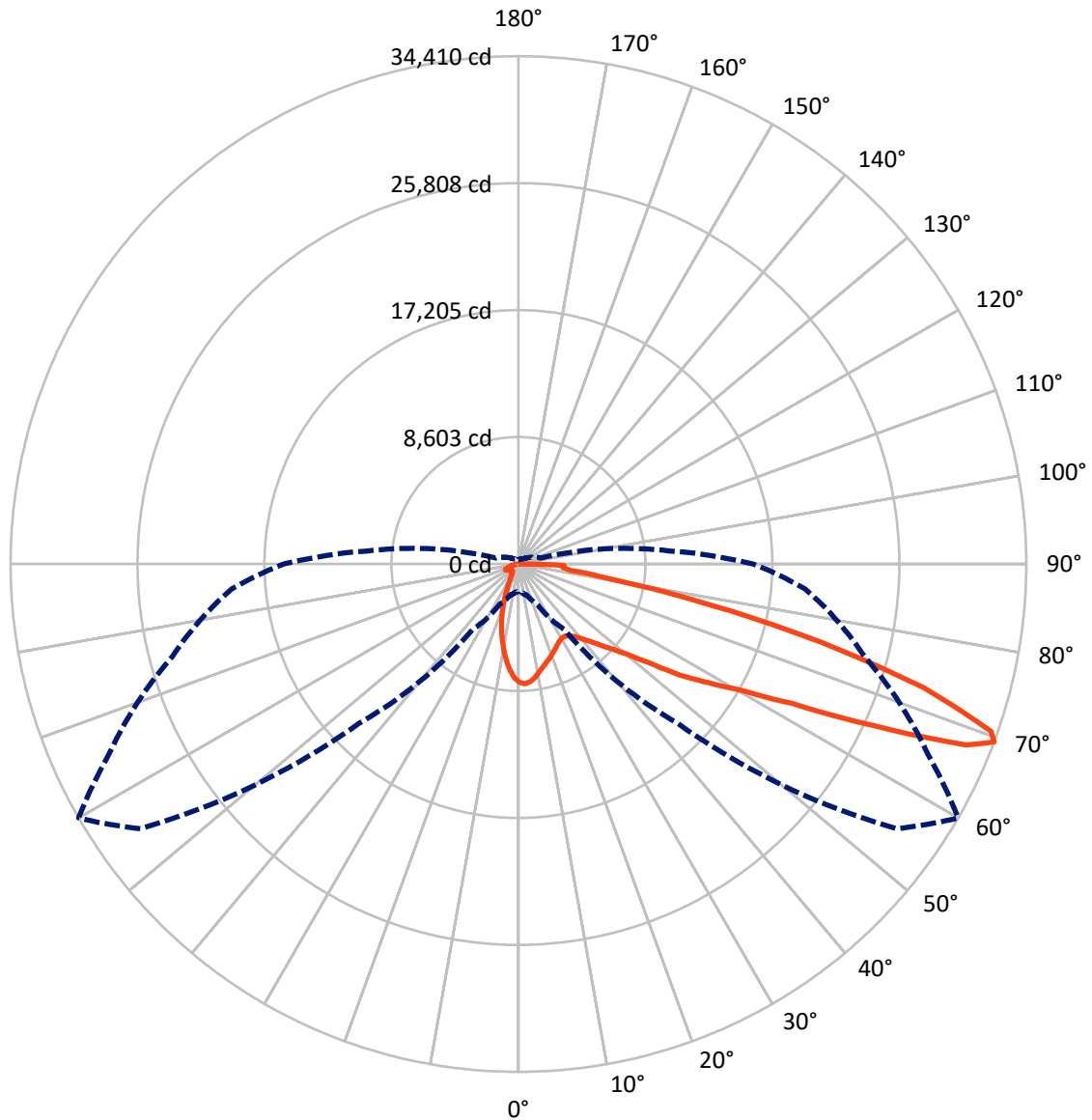
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 8.9 fc
 Type III - Medium - Non-Cutoff

REPORT NUMBER: P193706
CATALOG NUMBER: GLEON-AF-08-LED-E1-SL3-8030-800

Luminous Intensity Polar Plot



— Vertical Plane Through 60-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

REPORT NUMBER: P193706

CATALOG NUMBER: GLEON-AF-08-LED-E1-SL3-8030-800

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4474.9	0.0	4474.9
	% Fixture	14.2	0.0	14.2
Street Side	Lumens	26979.1	0.0	26979.1
	% Fixture	85.8	0.0	85.8
Total	Lumens	31454.0	0.0	31454.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	677.7	2.2
10°-20°	1443.9	4.6
20°-30°	1839.8	5.8
30°-40°	2529.2	8.0
40°-50°	4103.8	13.0
50°-60°	6581.5	20.9
60°-70°	8759.5	27.8
70°-80°	4729.5	15.0
80°-90°	789.1	2.5
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°	31454.0	100.0
0°-180°	31454.0	100.0

Coefficient of Utilization



REPORT NUMBER: P193706

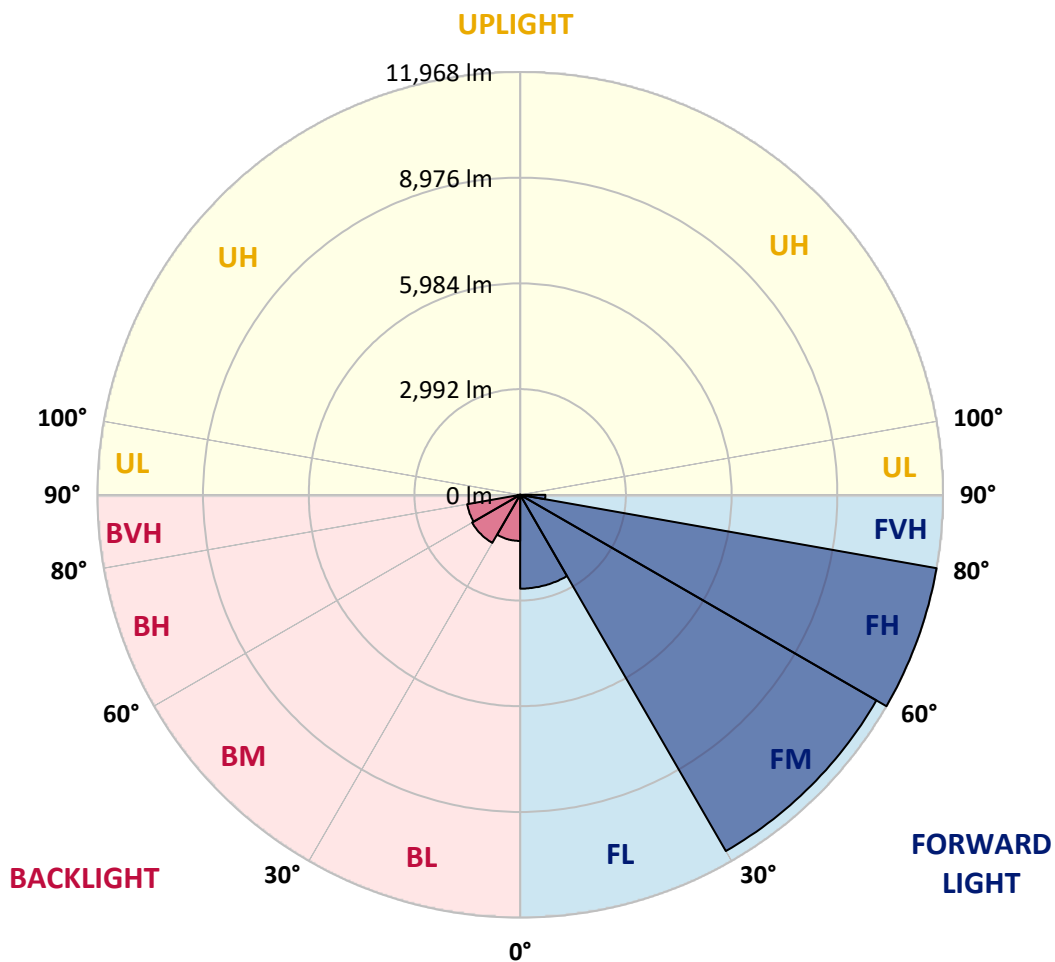
CATALOG NUMBER: GLEON-AF-08-LED-E1-SL3-8030-800

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2655.9	8.4			
FM (30°-60°)	11642.4	37.0			
FH (60°-80°)	11967.6	38.0			G4/12000
FVH (80°-90°)	713.2	2.3			G4/750
BL (0°-30°)	1305.5	4.2	B3/2500		
BM (30°-60°)	1572.1	5.0	B2/2500		
BH (60°-80°)	1521.3	4.8	B3/2500		G3/2500
BVH (80°-90°)	76.0	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type III Medium





REPORT NUMBER: P193706

CATALOG NUMBER: GLEON-AF-08-LED-E1-SL3-8030-800

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	60°	65°	75°	85°
0°	8015.0	8015.0	8015.0	8015.0	8015.0	8015.0	8015.0	8015.0	8015.0	8015.0	8015.0
2.5°	8179.1	8197.3	8189.7	8185.1	8198.8	8177.5	8133.5	8119.8	8098.5	8048.4	7963.3
5°	7872.1	7926.8	7923.8	7964.8	8033.2	8051.4	8031.7	8034.7	7995.2	7932.9	7791.6
7.5°	7341.9	7364.6	7376.8	7466.4	7591.0	7691.3	7776.4	7803.8	7785.5	7732.3	7550.0
10°	6794.9	6813.1	6842.0	6946.8	7104.8	7243.1	7404.1	7496.8	7536.3	7527.2	7323.6
12.5°	6325.4	6343.6	6381.6	6500.1	6688.5	6858.7	7092.7	7208.1	7302.3	7358.6	7139.8
15°	5904.5	5944.0	5980.4	6117.2	6328.4	6551.8	6816.1	6962.0	7107.9	7234.0	6977.2
17.5°	5576.3	5615.8	5637.1	5761.7	5986.5	6260.0	6570.0	6741.7	6924.0	7130.7	6816.1
20°	5386.4	5404.6	5395.5	5465.4	5667.4	5957.7	6325.4	6524.4	6744.7	7033.4	6655.1
22.5°	5333.2	5334.7	5301.3	5293.7	5424.3	5669.0	6064.0	6305.6	6576.1	6969.6	6516.8
25°	5462.3	5457.8	5366.6	5292.2	5305.8	5448.7	5811.8	6092.9	6434.8	6955.9	6410.4
27.5°	5749.5	5763.2	5627.9	5488.2	5349.9	5345.3	5620.3	5916.6	6319.3	7018.2	6364.9
30°	6152.1	6174.9	6030.6	5852.8	5593.0	5378.8	5545.9	5811.8	6247.9	7147.4	6357.3
32.5°	6592.8	6617.1	6507.7	6320.8	5980.4	5585.4	5597.6	5820.9	6244.8	7328.2	6408.9
35°	7062.3	7089.6	7033.4	6875.4	6497.1	5966.8	5795.1	5968.3	6343.6	7604.7	6547.2
37.5°	7586.5	7629.0	7644.2	7493.8	7089.6	6469.7	6118.7	6247.9	6566.9	7989.1	6800.9
40°	8341.6	8400.9	8396.3	8180.6	7768.8	7148.9	6618.6	6652.0	6914.9	8502.7	7206.6
42.5°	9788.1	9800.3	9421.9	8952.4	8516.4	7863.0	7208.1	7180.8	7395.0	9153.0	7803.8
45°	11628.1	11578.0	10736.2	9829.1	9297.3	8683.5	7975.5	7841.7	8004.3	9946.1	8551.3
47.5°	13155.2	13039.7	11976.1	10724.1	10123.9	9575.4	8876.5	8642.5	8732.1	10845.6	9517.7
50°	13685.4	13598.8	12717.6	11468.6	10906.4	10663.3	9985.6	9654.4	9678.7	11918.4	10649.6
52.5°	13571.5	13559.3	12971.3	11959.4	11638.8	11805.9	11556.7	11108.5	10871.5	13109.6	11871.3
55°	13302.5	13328.4	13115.7	12530.7	12476.0	12909.0	13609.5	13278.2	12541.3	14311.4	13133.9
57.5°	12368.1	12435.0	12902.9	13249.4	13823.7	14467.9	15262.6	15168.4	14338.8	15610.6	14635.1
60°	9964.4	10119.4	11374.4	13109.6	15210.9	17225.7	17581.2	17362.4	16192.5	17222.7	16617.9
62.5°	6981.7	7142.8	8634.9	11350.1	14983.0	20340.5	21726.2	20782.7	18854.5	19597.5	19184.2
65°	3737.8	3815.3	4954.8	7875.2	12649.2	20983.2	27784.2	26348.3	23069.4	22525.4	21379.8
67.5°	2061.9	2104.4	2540.5	3976.3	8101.6	18477.7	31643.5	32728.4	28337.2	24474.9	20980.2
69°	1864.3	1903.8	2189.5	3011.5	5421.3	15277.8	31266.7	34410.4	30646.8	24281.9	19503.3
70°	1823.3	1859.8	2116.6	2776.0	4388.1	12593.0	30004.0	33980.4	31196.8	23590.6	18214.8
72.5°	1641.0	1680.5	1929.7	2493.4	3749.9	6278.3	23766.8	28730.8	28323.6	20454.5	13816.1
75°	1530.1	1566.5	1988.9	2441.7	3590.4	3973.3	15668.3	21174.7	20820.7	14308.4	7449.7
77.5°	654.9	651.8	922.3	2066.4	3643.6	3847.2	8419.1	13228.1	12068.8	6115.7	2139.3
80°	437.6	430.0	437.6	607.8	3341.2	3868.5	4410.9	6714.3	5071.8	1558.9	1054.5
82.5°	376.8	370.7	384.4	370.7	1174.5	4415.4	3749.9	3570.6	2411.3	885.8	522.7
85°	253.7	243.1	331.2	332.8	554.6	3923.2	4224.0	3016.1	1950.9	525.7	258.3
87.5°	121.6	118.5	193.0	235.5	325.2	1593.9	4739.1	3090.5	1967.7	268.9	123.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P193706

CATALOG NUMBER: GLEON-AF-08-LED-E1-SL3-8030-800

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	8015.0	8015.0	8015.0	8015.0	8015.0	8015.0	8015.0	8015.0	8015.0	8015.0	8015.0
2.5°	7937.5	7875.2	7814.4	7741.5	7665.5	7580.4	7537.9	7495.3	7484.7	7472.5	7430.0
5°	7718.7	7630.5	7478.6	7311.5	7135.2	6963.5	6832.8	6750.8	6688.5	6656.6	6600.4
7.5°	7436.1	7306.9	7041.0	6752.3	6456.0	6185.6	5951.6	5804.2	5664.4	5599.1	5524.6
10°	7167.1	6974.2	6560.9	6135.4	5710.0	5301.3	4916.9	4644.9	4403.3	4268.1	4172.3
12.5°	6936.2	6671.8	6099.0	5523.1	4939.6	4357.7	3781.8	3329.1	2950.7	2751.7	2649.9
15°	6711.3	6392.2	5659.9	4929.0	4179.9	3388.3	2631.6	2118.1	1805.1	1680.5	1637.9
17.5°	6507.7	6099.0	5219.2	4330.4	3395.9	2438.7	1768.6	1486.0	1366.0	1324.9	1311.3
20°	6287.4	5802.7	4761.9	3704.4	2578.5	1704.8	1381.2	1256.6	1207.9	1195.8	1189.7
22.5°	6074.7	5510.9	4324.3	3034.3	1852.2	1315.8	1186.7	1135.0	1127.4	1138.0	1138.0
25°	5893.8	5249.6	3851.7	2333.8	1359.9	1107.7	1062.1	1049.9	1078.8	1118.3	1125.9
27.5°	5758.6	5035.4	3348.8	1723.0	1083.3	963.3	961.8	981.5	1053.0	1128.9	1144.1
30°	5665.9	4831.8	2810.9	1242.9	908.6	847.8	872.1	914.7	1019.5	1127.4	1156.3
32.5°	5618.8	4681.3	2250.3	961.8	777.9	744.5	785.5	837.2	940.5	1040.8	1078.8
35°	5655.3	4570.4	1721.5	802.3	686.8	660.9	703.5	753.6	814.4	857.0	885.8
37.5°	5792.0	4526.4	1299.1	718.7	624.5	600.2	633.6	662.5	686.8	698.9	712.6
40°	6086.8	4573.5	1040.8	676.1	589.5	559.1	572.8	583.5	598.7	610.8	616.9
42.5°	6521.4	4714.8	932.9	659.4	571.3	527.2	524.2	528.8	548.5	571.3	575.9
45°	7129.1	4964.0	925.3	670.1	562.2	501.4	487.7	493.8	524.2	559.1	565.2
47.5°	7905.6	5343.8	986.1	702.0	569.8	487.7	464.9	472.5	510.5	557.6	565.2
50°	8846.1	5874.1	1087.9	749.1	603.2	490.8	457.3	461.9	501.4	553.1	560.7
52.5°	9956.8	6626.2	1198.8	794.7	638.2	510.5	463.4	452.8	489.3	534.8	544.0
55°	11192.1	7591.0	1312.8	835.7	656.4	534.8	475.6	440.6	466.5	504.4	512.0
57.5°	12708.5	8940.3	1510.3	875.2	668.5	551.6	487.7	428.5	437.6	464.9	471.0
60°	14761.2	10848.7	1858.3	940.5	695.9	557.6	486.2	417.8	408.7	423.9	427.0
62.5°	17221.1	12921.2	2148.5	1022.6	741.5	562.2	477.1	410.2	384.4	384.4	387.5
65°	18681.3	13475.8	1987.4	1090.9	779.5	557.6	466.5	402.6	366.2	349.5	351.0
67.5°	17443.0	11851.5	1703.3	1104.6	777.9	536.4	449.7	389.0	347.9	322.1	320.6
69°	15891.6	10225.7	1575.6	1068.2	741.5	509.0	428.5	373.8	334.3	306.9	305.4
70°	14641.2	9233.5	1492.1	1028.6	702.0	489.3	411.8	360.1	323.6	297.8	294.8
72.5°	10645.1	6050.3	1274.8	884.3	578.9	410.2	355.5	316.0	288.7	273.5	270.5
75°	5319.5	2885.4	1034.7	717.2	443.7	328.2	291.7	264.4	250.7	247.7	246.1
77.5°	1747.3	1321.9	740.0	534.8	329.7	256.8	235.5	215.8	212.7	221.8	218.8
80°	960.3	768.8	469.5	354.0	224.9	188.4	185.4	174.7	179.3	194.5	191.4
82.5°	489.3	399.6	290.2	212.7	151.9	135.2	147.4	141.3	147.4	161.1	159.5
85°	241.6	218.8	183.9	129.2	100.3	86.6	104.8	109.4	112.4	123.1	123.1
87.5°	139.8	129.2	97.2	60.8	50.1	45.6	60.8	59.3	69.9	76.0	74.5
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)