

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: P191966

Luminaire Tested: **GLEON-AF-08-LED-E1-SL3-7050-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191966
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-SL3-7050-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 5000K, 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: 38546 lumens
Efficiency: N/A
Efficacy: 115.4 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Medium - Non-Cutoff
BUG Rating: B3 - U0 - G5

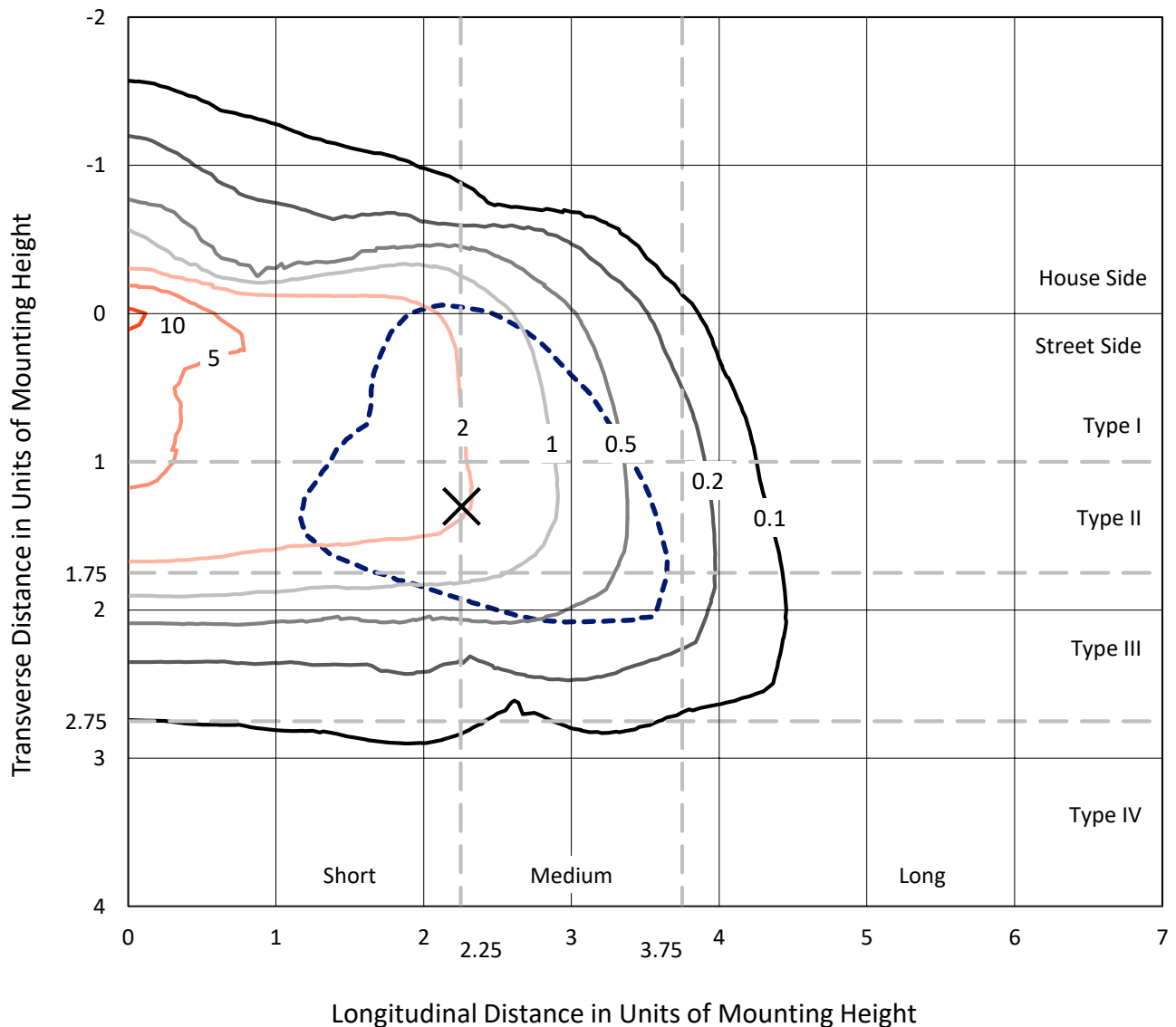
Input Watts (W): 334
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P191966
 CATALOG NUMBER: GLEON-AF-08-LED-E1-SL3-7050-800

Iso-Footcandle Lines of Horizontal Illumination

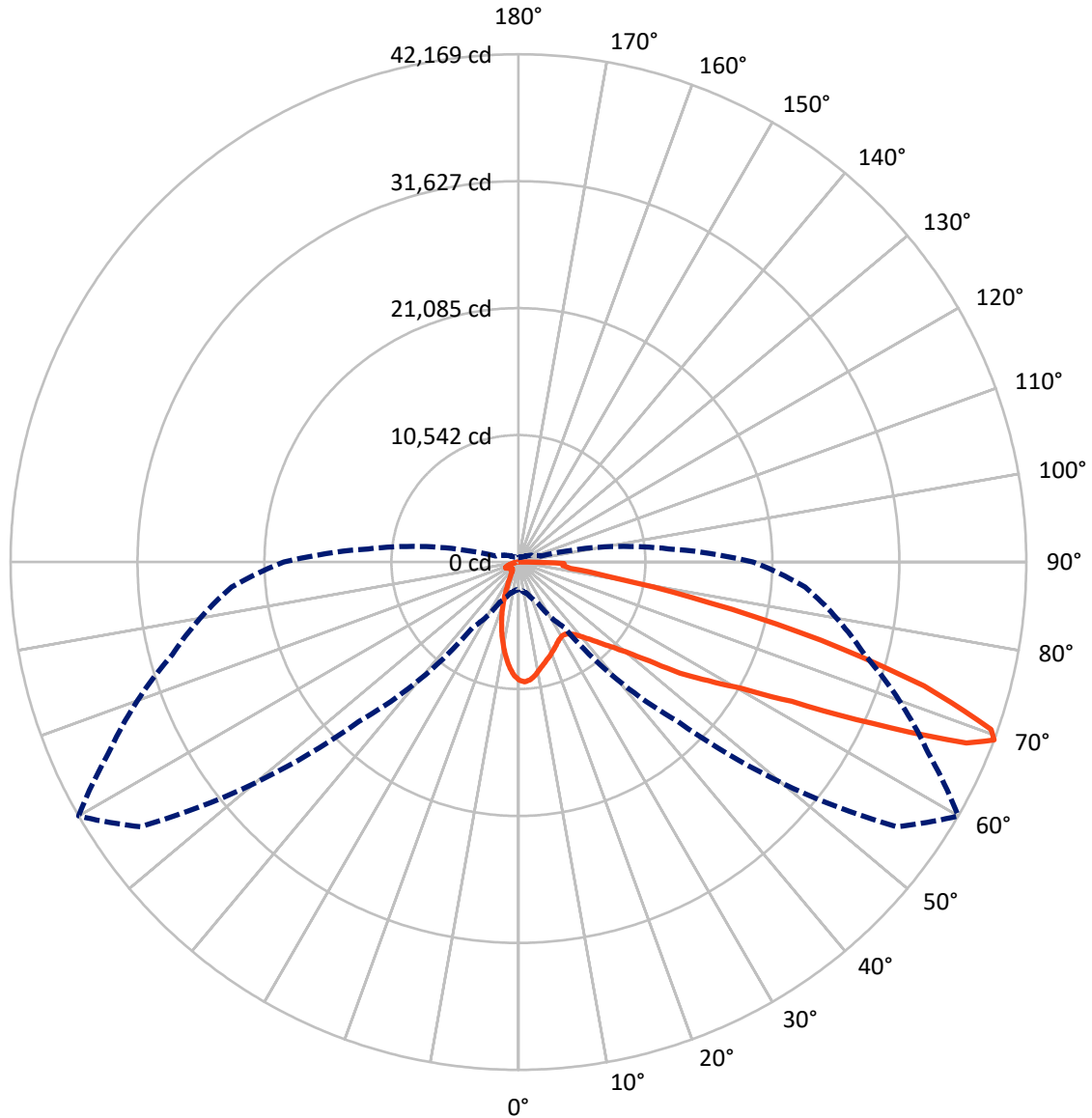
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 10.9 fc
 Type III - Medium - Non-Cutoff

REPORT NUMBER: P191966
CATALOG NUMBER: GLEON-AF-08-LED-E1-SL3-7050-800

Luminous Intensity Polar Plot



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

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CATALOG NUMBER: GLEON-AF-08-LED-E1-SL3-7050-800

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5483.9	0.0	5483.9
	% Fixture	14.2	0.0	14.2
Street Side	Lumens	33062.1	0.0	33062.1
	% Fixture	85.8	0.0	85.8
Total	Lumens	38546.0	0.0	38546.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	830.5	2.2
10°-20°	1769.4	4.6
20°-30°	2254.6	5.8
30°-40°	3099.4	8.0
40°-50°	5029.2	13.0
50°-60°	8065.5	20.9
60°-70°	10734.5	27.8
70°-80°	5795.8	15.0
80°-90°	967.1	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°	38546.0	100.0
0°-180°	38546.0	100.0

Coefficient of Utilization



REPORT NUMBER: P191966

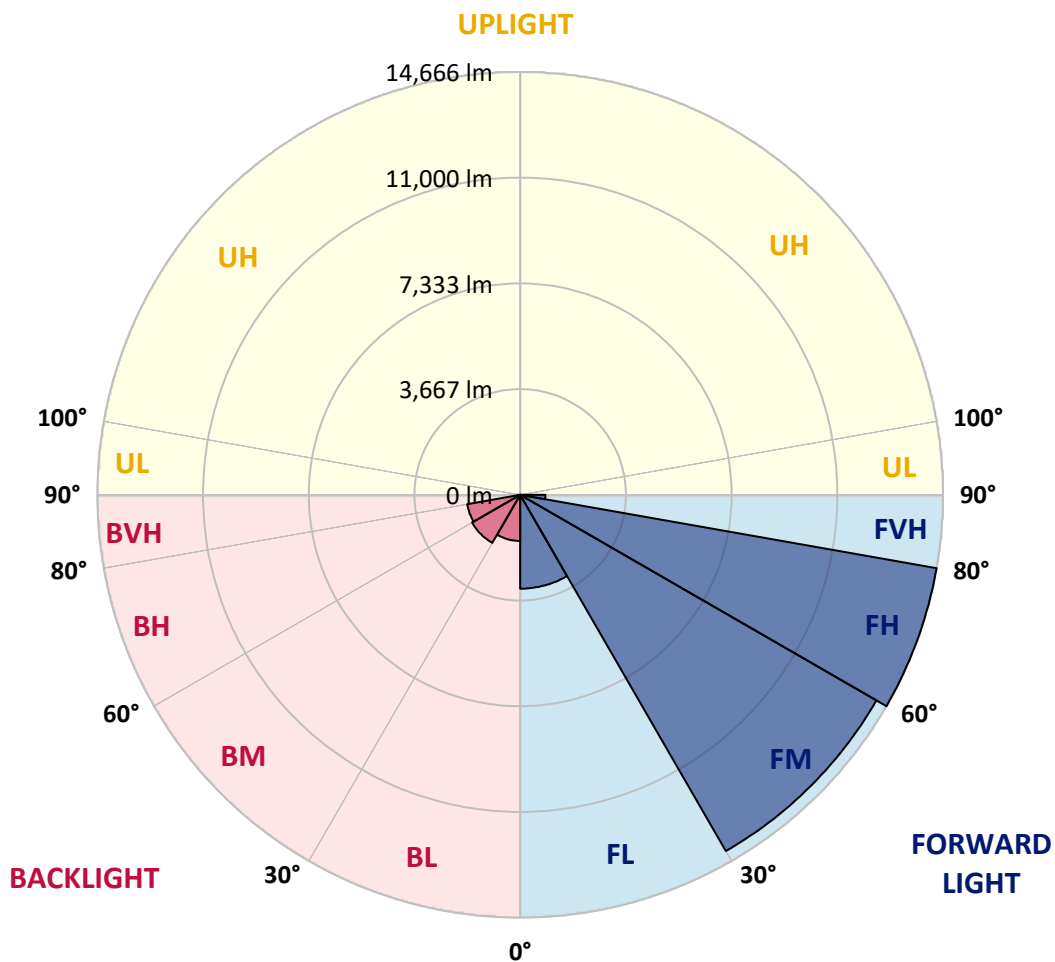
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3254.7	8.4			
FM (30°-60°)	14267.5	37.0			
FH (60°-80°)	14666.0	38.0			G5
FVH (80°-90°)	873.9	2.3			G5
BL (0°-30°)	1599.8	4.2	B3/2500		
BM (30°-60°)	1926.6	5.0	B2/2500		
BH (60°-80°)	1864.3	4.8	B3/2500		G3/2500
BVH (80°-90°)	93.1	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-G5

Type III Medium





REPORT NUMBER: P191966

CATALOG NUMBER: GLEON-AF-08-LED-E1-SL3-7050-800

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	60°	65°	75°	85°
0°	9822.1	9822.1	9822.1	9822.1	9822.1	9822.1	9822.1	9822.1	9822.1	9822.1	9822.1
2.5°	10023.2	10045.5	10036.2	10030.7	10047.4	10021.3	9967.3	9950.6	9924.5	9863.1	9758.8
5°	9647.1	9714.1	9710.4	9760.7	9844.5	9866.8	9842.6	9846.3	9797.9	9721.6	9548.4
7.5°	8997.2	9025.2	9040.1	9149.9	9302.6	9425.5	9529.8	9563.3	9540.9	9475.8	9252.3
10°	8326.9	8349.3	8384.6	8513.1	8706.8	8876.2	9073.6	9187.2	9235.6	9224.4	8974.9
12.5°	7751.6	7773.9	7820.4	7965.7	8196.6	8405.1	8691.9	8833.4	8948.8	9017.7	8749.6
15°	7235.8	7284.2	7328.9	7496.5	7755.3	8029.0	8353.0	8531.7	8710.5	8865.0	8550.4
17.5°	6833.6	6882.0	6908.1	7060.7	7336.3	7671.5	8051.3	8261.7	8485.2	8738.4	8353.0
20°	6600.8	6623.2	6612.0	6697.7	6945.3	7300.9	7751.6	7995.5	8265.5	8619.2	8155.6
22.5°	6535.7	6537.5	6496.6	6487.2	6647.4	6947.2	7431.3	7727.3	8058.8	8541.0	7986.2
25°	6693.9	6688.3	6576.6	6485.4	6502.1	6677.2	7122.2	7466.7	7885.6	8524.3	7855.8
27.5°	7045.8	7062.6	6896.9	6725.6	6556.1	6550.6	6887.6	7250.7	7744.1	8600.6	7800.0
30°	7539.3	7567.2	7390.3	7172.5	6854.1	6591.5	6796.3	7122.2	7656.6	8758.9	7790.7
32.5°	8079.3	8109.1	7975.0	7746.0	7328.9	6844.8	6859.6	7133.4	7652.9	8980.5	7854.0
35°	8654.6	8688.1	8619.2	8425.6	7962.0	7312.1	7101.7	7314.0	7773.9	9319.4	8023.4
37.5°	9297.0	9349.2	9367.8	9183.4	8688.1	7928.4	7498.3	7656.6	8047.6	9790.5	8334.4
40°	10222.4	10295.1	10289.5	10025.1	9520.5	8760.8	8110.9	8151.9	8474.0	10419.8	8831.5
42.5°	11995.1	12010.0	11546.3	10971.0	10436.6	9635.9	8833.4	8799.9	9062.4	11216.8	9563.3
45°	14250.0	14188.5	13157.0	12045.3	11393.6	10641.4	9773.7	9609.8	9809.1	12188.7	10479.4
47.5°	16121.3	15979.8	14676.4	13142.1	12406.6	11734.4	10877.9	10591.1	10701.0	13291.0	11663.6
50°	16771.1	16665.0	15585.0	14054.5	13365.5	13067.6	12237.1	11831.2	11861.0	14605.6	13050.8
52.5°	16631.5	16616.6	15896.0	14655.9	14263.0	14467.8	14162.5	13613.2	13322.7	16065.4	14547.9
55°	16301.9	16333.6	16072.9	15356.0	15289.0	15819.6	16678.0	16272.1	15369.0	17538.3	16095.2
57.5°	15156.8	15238.7	15812.2	16236.7	16940.6	17730.1	18703.9	18588.5	17571.8	19130.3	17934.9
60°	12211.1	12401.0	13939.0	16065.4	18640.6	21109.6	21545.3	21277.2	19843.4	21105.9	20364.8
62.5°	8555.9	8753.3	10581.8	13909.2	18361.3	24926.7	26624.9	25468.6	23105.7	24016.2	23509.7
65°	4580.5	4675.5	6072.0	9650.8	15501.2	25714.4	34048.7	32289.1	28270.9	27604.3	26200.4
67.5°	2526.7	2578.9	3113.3	4872.9	9928.2	22643.9	38778.2	40107.7	34726.5	29993.3	25710.6
69°	2284.7	2333.1	2683.2	3690.5	6643.7	18722.5	38316.5	42169.0	37556.8	29756.8	23900.8
70°	2234.4	2279.1	2593.8	3401.9	5377.5	15432.3	36769.1	41642.0	38230.8	28909.6	22321.8
72.5°	2011.0	2059.4	2364.8	3055.6	4595.4	7693.8	29125.6	35208.8	34709.7	25066.4	16931.3
75°	1875.0	1919.7	2437.4	2992.3	4399.9	4869.2	19201.1	25949.0	25515.1	17534.6	9129.4
77.5°	802.5	798.8	1130.2	2532.3	4465.1	4714.6	10317.4	16210.7	14790.0	7494.6	2621.7
80°	536.3	526.9	536.3	744.8	4094.6	4740.7	5405.4	8228.2	6215.4	1910.4	1292.2
82.5°	461.8	454.3	471.1	454.3	1439.3	5411.0	4595.4	4375.7	2955.0	1085.6	640.5
85°	311.0	297.9	405.9	407.8	679.6	4807.7	5176.4	3696.1	2390.8	644.3	316.5
87.5°	149.0	145.2	236.5	288.6	398.5	1953.2	5807.6	3787.3	2411.3	329.6	150.8
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°	9822.1	9822.1	9822.1	9822.1	9822.1	9822.1	9822.1	9822.1	9822.1	9822.1	9822.1
2.5°	9727.1	9650.8	9576.3	9486.9	9393.8	9289.6	9237.4	9185.3	9172.3	9157.4	9105.2
5°	9459.0	9351.0	9164.8	8960.0	8744.0	8533.6	8373.5	8272.9	8196.6	8157.5	8088.6
7.5°	9112.7	8954.4	8628.6	8274.8	7911.7	7580.2	7293.5	7112.9	6941.6	6861.5	6770.3
10°	8783.1	8546.6	8040.2	7518.8	6997.4	6496.6	6025.5	5692.2	5396.1	5230.4	5113.1
12.5°	8500.1	8176.1	7474.1	6768.4	6053.4	5340.2	4634.5	4079.7	3616.0	3372.1	3247.3
15°	8224.5	7833.5	6936.0	6040.4	5122.4	4152.3	3225.0	2595.6	2212.1	2059.4	2007.2
17.5°	7975.0	7474.1	6396.0	5306.7	4161.6	2988.5	2167.4	1821.0	1673.9	1623.7	1606.9
20°	7705.0	7111.0	5835.5	4539.6	3159.8	2089.2	1692.6	1539.9	1480.3	1465.4	1458.0
22.5°	7444.3	6753.5	5299.3	3718.4	2269.8	1612.5	1454.2	1390.9	1381.6	1394.6	1394.6
25°	7222.7	6433.2	4720.2	2860.0	1666.5	1357.4	1301.5	1286.6	1322.0	1370.4	1379.7
27.5°	7057.0	6170.7	4103.9	2111.5	1327.6	1180.5	1178.7	1202.9	1290.4	1383.5	1402.1
30°	6943.4	5921.2	3444.7	1523.1	1113.5	1039.0	1068.8	1120.9	1249.4	1381.6	1417.0
32.5°	6885.7	5736.9	2757.6	1178.7	953.3	912.4	962.7	1026.0	1152.6	1275.5	1322.0
35°	6930.4	5600.9	2109.7	983.1	841.6	810.0	862.1	923.6	998.0	1050.2	1085.6
37.5°	7098.0	5546.9	1592.0	880.7	765.3	735.5	776.5	811.8	841.6	856.5	873.3
40°	7459.2	5604.7	1275.5	828.6	722.5	685.2	702.0	715.0	733.6	748.5	756.0
42.5°	7991.7	5777.8	1143.3	808.1	700.1	646.1	642.4	648.0	672.2	700.1	705.7
45°	8736.6	6083.2	1134.0	821.1	688.9	614.5	597.7	605.2	642.4	685.2	692.7
47.5°	9688.0	6548.7	1208.4	860.2	698.3	597.7	569.8	579.1	625.6	683.4	692.7
50°	10840.6	7198.5	1333.2	918.0	739.2	601.4	560.5	566.1	614.5	677.8	687.1
52.5°	12201.8	8120.2	1469.1	973.8	782.0	625.6	567.9	554.9	599.6	655.4	666.6
55°	13715.6	9302.6	1608.8	1024.1	804.4	655.4	582.8	540.0	571.6	618.2	627.5
57.5°	15573.9	10956.1	1850.8	1072.5	819.3	675.9	597.7	525.1	536.3	569.8	577.2
60°	18089.4	13294.8	2277.2	1152.6	852.8	683.4	595.8	512.1	500.9	519.5	523.2
62.5°	21104.0	15834.5	2632.9	1253.1	908.7	688.9	584.7	502.7	471.1	471.1	474.8
65°	22893.4	16514.2	2435.5	1336.9	955.2	683.4	571.6	493.4	448.7	428.3	430.1
67.5°	21375.9	14523.7	2087.3	1353.7	953.3	657.3	551.2	476.7	426.4	394.7	392.9
69°	19474.8	12531.3	1930.9	1309.0	908.7	623.8	525.1	458.1	409.6	376.1	374.3
70°	17942.3	11315.4	1828.5	1260.6	860.2	599.6	504.6	441.3	396.6	365.0	361.2
72.5°	13045.2	7414.5	1562.2	1083.7	709.4	502.7	435.7	387.3	353.8	335.2	331.4
75°	6518.9	3536.0	1268.0	878.9	543.7	402.2	357.5	324.0	307.2	303.5	301.6
77.5°	2141.3	1619.9	906.8	655.4	404.1	314.7	288.6	264.4	260.7	271.9	268.1
80°	1176.8	942.2	575.4	433.8	275.6	230.9	227.2	214.1	219.7	238.3	234.6
82.5°	599.6	489.7	355.6	260.7	186.2	165.7	180.6	173.2	180.6	197.4	195.5
85°	296.1	268.1	225.3	158.3	122.9	106.1	128.5	134.1	137.8	150.8	150.8
87.5°	171.3	158.3	119.2	74.5	61.4	55.9	74.5	72.6	85.7	93.1	91.2
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)