

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: P191484

Luminaire Tested: **GLEON-AF-06-LED-E1-T3R-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191484
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P40129)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-06-LED-E1-T3R-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30084 lumens
Efficiency: N/A
Efficacy: 120.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short - Full Cutoff
BUG Rating: B3 - U0 - G4

Input Watts (W): 249
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

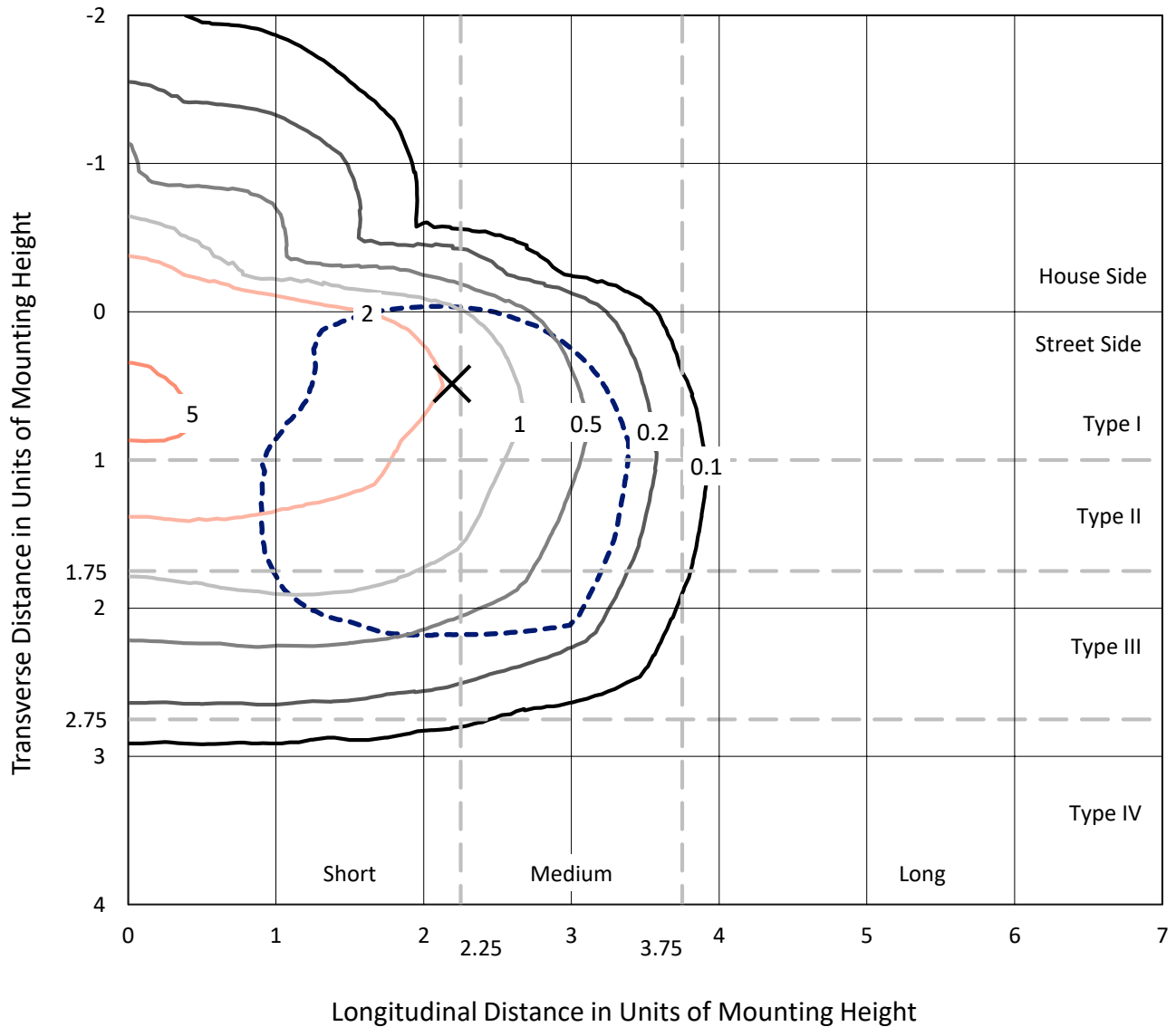


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

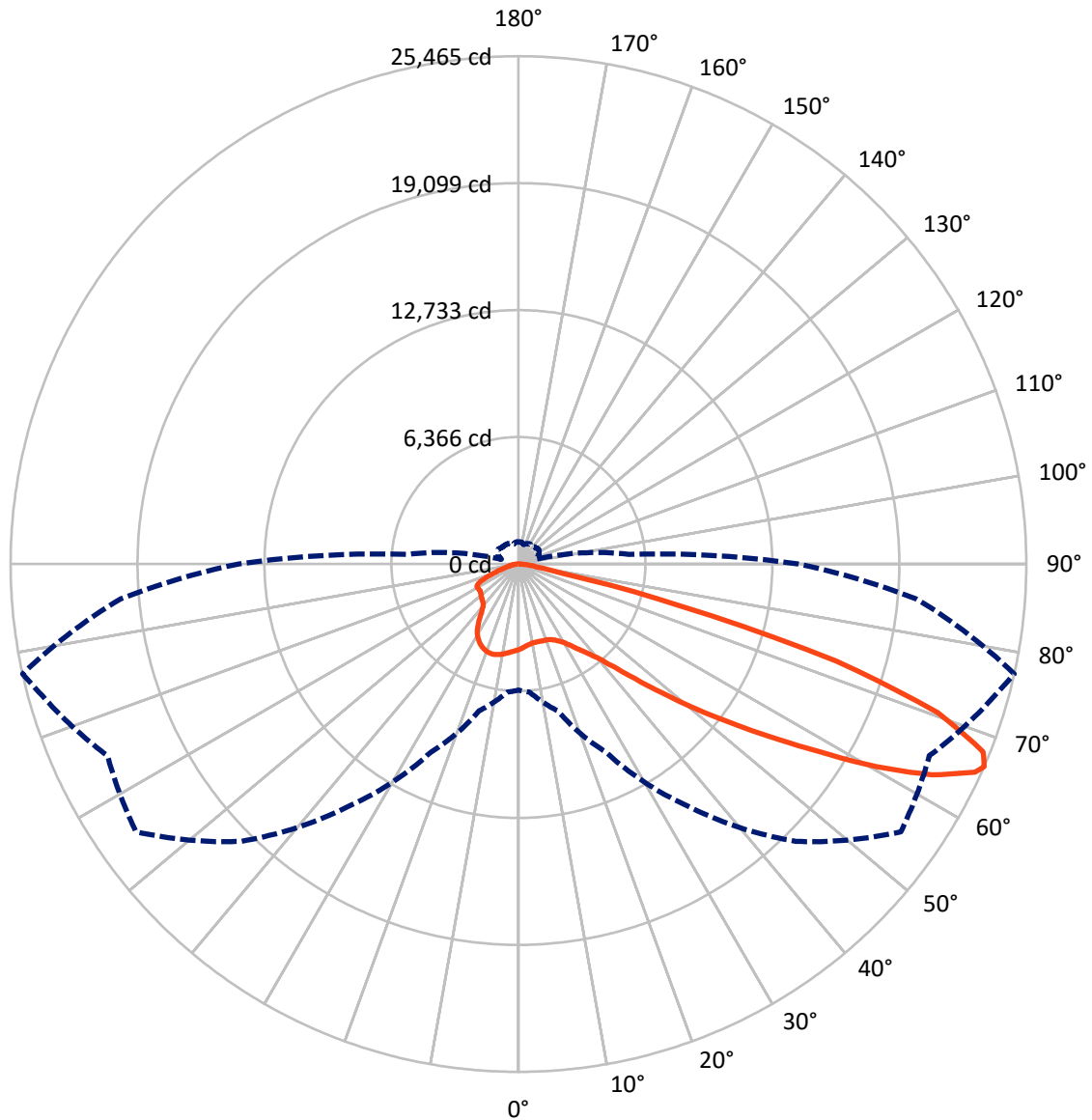


Based on 30 foot mounting height. Maximum calculated value = 5.9 fc
 Type III - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 77.5-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5139.7	0.0	5139.7
	% Fixture	17.1	0.0	17.1
Street Side	Lumens	24944.3	0.0	24944.3
	% Fixture	82.9	0.0	82.9
Total	Lumens	30084.0	0.0	30084.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	383.0	1.3
10°-20°	1080.6	3.6
20°-30°	1844.1	6.1
30°-40°	2952.1	9.8
40°-50°	4560.8	15.2
50°-60°	6468.7	21.5
60°-70°	8653.4	28.8
70°-80°	3758.0	12.5
80°-90°	383.2	1.3
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°	30084.0	100.0
0°-180°	30084.0	100.0



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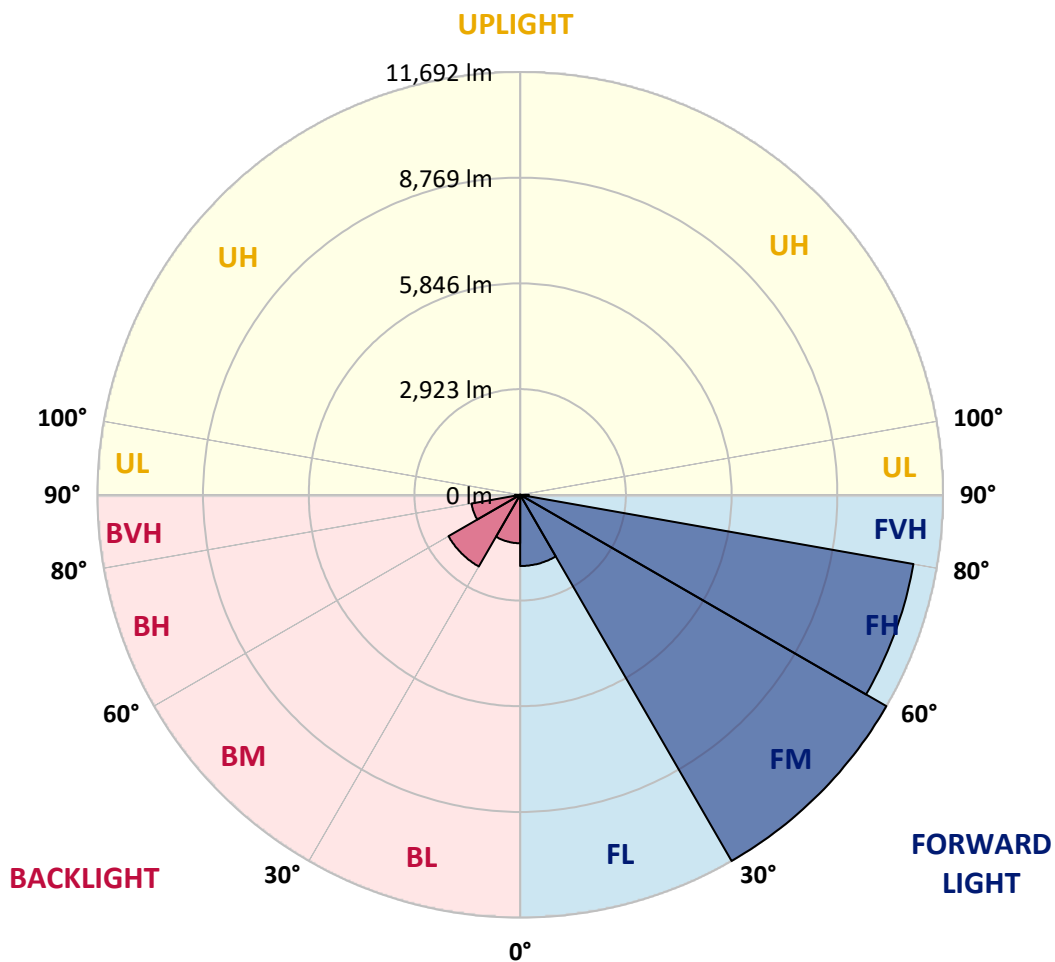
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1969.1	6.5			
FM	(30°-60°)	11692.2	38.9			
FH	(60°-80°)	11042.6	36.7			G4/12000
FVH	(80°-90°)	240.3	0.8			G3/500
BL	(0°-30°)	1338.6	4.4	B3/2500		
BM	(30°-60°)	2289.4	7.6	B2/2500		
BH	(60°-80°)	1368.8	4.5	B3/2500		G3/2500
BVH	(80°-90°)	142.9	0.5			G2/225
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 Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77.5°	85°
0°	4287.1	4287.1	4287.1	4287.1	4287.1	4287.1	4287.1	4287.1	4287.1	4287.1	4287.1
2.5°	3792.5	3818.1	3839.3	3859.3	3899.1	3964.4	4039.7	4100.9	4189.0	4206.1	4253.0
5°	3444.2	3444.2	3461.3	3491.1	3545.1	3643.2	3745.5	3882.0	4073.9	4119.4	4244.4
7.5°	3275.1	3276.4	3286.4	3312.0	3358.9	3448.5	3560.8	3721.4	3981.5	4056.8	4270.0
10°	3337.6	3323.4	3302.1	3289.2	3296.4	3348.9	3455.5	3634.6	3924.7	4021.3	4326.9
12.5°	3687.2	3660.2	3586.4	3488.3	3394.5	3356.1	3418.6	3593.4	3900.5	4012.7	4402.3
15°	4258.6	4247.3	4109.4	3906.1	3678.7	3488.3	3445.6	3577.8	3903.3	4022.8	4491.8
17.5°	4975.1	4959.5	4777.5	4481.9	4110.8	3739.8	3540.8	3590.6	3913.3	4039.7	4578.5
20°	5698.7	5650.3	5454.2	5101.6	4625.4	4082.4	3698.6	3623.3	3926.1	4058.3	4669.5
22.5°	6238.8	6199.0	6022.7	5680.1	5131.4	4479.0	3910.4	3680.2	3967.3	4112.3	4781.8
25°	6713.5	6716.4	6541.6	6210.3	5643.2	4899.7	4183.4	3832.3	4072.5	4223.2	4935.3
27.5°	7300.6	7266.4	7103.0	6774.7	6149.2	5324.8	4513.2	4041.2	4228.9	4380.9	5137.2
30°	8002.7	7978.6	7789.6	7417.1	6710.7	5781.1	4889.8	4284.2	4430.7	4588.4	5401.5
32.5°	8828.7	8817.3	8621.1	8142.1	7358.9	6318.4	5331.9	4605.5	4732.1	4895.5	5781.1
35°	9798.1	9799.5	9567.8	8992.1	8068.2	6943.8	5833.7	5019.1	5098.8	5269.3	6233.0
37.5°	10395.1	10467.5	10380.9	9793.8	8871.3	7643.2	6484.7	5567.8	5516.7	5688.6	6717.8
40°	10523.0	10611.2	10885.5	10587.0	9769.7	8413.6	7061.7	6095.2	6031.2	6241.6	7341.8
42.5°	10344.0	10466.2	11046.1	11256.6	10723.5	9363.2	7838.0	6878.4	6797.4	7080.3	8117.9
45°	10237.3	10328.3	10999.2	11604.8	11550.8	10436.3	8825.8	7862.1	7832.2	8203.2	9013.4
47.5°	10052.5	10135.0	10780.3	11685.8	12036.9	11419.9	10012.7	9064.6	9122.9	9609.0	10024.1
50°	10152.1	10186.1	10535.8	11479.7	12177.6	12140.7	11338.9	10457.6	10656.7	11263.6	11168.4
52.5°	10137.9	10225.9	10507.4	11141.4	12196.1	12585.6	12645.3	12011.3	12430.6	13127.1	12437.8
55°	8196.1	8358.1	10173.3	11056.1	12261.5	13022.0	13808.0	13648.8	14430.6	15242.3	13870.6
57.5°	7826.5	7928.9	8935.3	11235.2	12608.3	13854.9	15101.5	15451.3	16758.9	17701.3	15616.1
60°	7754.1	7880.5	8922.5	11454.1	13312.0	15212.4	17019.0	17633.1	19591.9	20623.9	17640.3
62.5°	7528.0	7664.5	8838.6	11425.6	14311.2	17090.1	19473.9	19953.0	22278.4	23282.1	19333.2
65°	6811.6	6939.5	8154.9	10966.5	14985.0	19094.4	22379.4	22079.5	24399.3	25154.1	20177.5
66°	6321.2	6446.3	7616.2	10426.3	14828.6	19663.0	23408.5	22737.6	24874.1	25465.3	20012.7
67.5°	5424.3	5522.4	6570.0	9216.7	13997.0	19822.2	24274.2	23232.2	24923.8	25132.8	19070.3
70°	3427.1	3455.5	4270.0	6362.4	10595.5	17191.1	22956.4	22004.1	22868.4	22302.6	15987.1
72.5°	1486.9	1476.9	2049.7	3236.6	5998.6	11535.1	18569.9	18156.3	17938.8	16648.1	11191.1
75°	827.3	838.6	1064.7	1502.5	2437.8	5665.9	12147.7	11624.6	9815.1	8375.2	5074.6
77.5°	663.8	679.4	882.7	1066.1	1094.6	1975.8	5684.4	4625.4	2784.7	2234.5	1410.0
80°	524.5	552.9	770.4	830.1	737.8	814.5	1836.5	1468.3	1101.6	1010.7	730.6
82.5°	415.1	435.0	660.9	628.3	516.0	548.7	879.8	857.1	716.4	652.4	422.2
85°	298.5	335.4	543.0	473.3	338.3	369.6	584.2	560.1	410.8	335.4	186.2
87.5°	122.2	159.2	383.8	314.1	189.0	172.0	291.4	274.4	194.8	142.2	92.4
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°	4287.1	4287.1	4287.1	4287.1	4287.1	4287.1	4287.1	4287.1	4287.1	4287.1	4287.1
2.5°	4282.9	4317.0	4361.0	4388.0	4402.3	4412.2	4427.8	4426.4	4430.7	4432.1	4437.8
5°	4311.2	4368.1	4432.1	4449.1	4449.1	4433.5	4417.9	4392.2	4382.3	4379.5	4382.3
7.5°	4385.2	4447.7	4503.1	4483.3	4440.6	4378.1	4297.0	4226.0	4187.7	4174.8	4172.0
10°	4479.0	4554.4	4577.1	4501.7	4376.7	4226.0	4065.4	3948.8	3882.0	3863.5	3857.9
12.5°	4592.7	4663.8	4632.5	4473.4	4241.7	3998.5	3776.8	3590.6	3451.3	3407.2	3404.4
15°	4717.8	4773.3	4663.8	4385.2	4039.7	3681.6	3286.4	2965.1	2791.7	2736.3	2732.0
17.5°	4834.4	4862.8	4645.3	4231.6	3742.7	3162.8	2638.2	2390.8	2331.2	2345.4	2348.3
20°	4933.9	4933.9	4582.8	4011.3	3275.1	2479.0	2147.8	2143.6	2186.1	2228.8	2237.4
22.5°	5043.4	4977.9	4473.4	3700.0	2612.6	2028.4	1980.1	2019.9	2068.2	2115.2	2122.2
25°	5178.4	5013.5	4321.3	3228.1	2054.0	1842.2	1860.6	1893.4	1917.5	1947.4	1951.7
27.5°	5329.1	5059.0	4120.8	2578.6	1782.5	1725.6	1739.8	1751.2	1748.4	1759.8	1762.6
30°	5509.5	5111.6	3846.5	2015.6	1670.2	1626.2	1600.5	1590.6	1590.6	1609.1	1616.2
32.5°	5751.2	5189.7	3452.7	1727.0	1616.2	1555.1	1472.6	1435.7	1449.9	1512.4	1526.7
35°	6017.0	5273.6	2919.7	1628.9	1604.8	1522.4	1394.5	1326.3	1327.7	1385.9	1404.4
37.5°	6307.0	5380.2	2335.5	1610.5	1630.4	1523.8	1353.3	1259.5	1221.0	1221.0	1228.2
40°	6678.0	5489.7	1890.5	1623.3	1684.4	1540.9	1331.9	1206.8	1098.8	1101.6	1107.3
42.5°	7161.3	5583.5	1651.8	1650.3	1749.9	1563.6	1330.4	1137.2	1043.3	1107.3	1165.6
45°	7698.6	5630.4	1546.5	1674.5	1802.4	1577.8	1307.7	1125.8	1050.5	1240.9	1351.8
47.5°	8316.9	5603.4	1488.3	1683.0	1815.2	1577.8	1282.2	1152.8	1100.2	1437.0	1566.4
50°	8995.0	5525.2	1431.4	1666.0	1810.9	1574.9	1306.3	1179.8	1118.7	1471.2	1560.7
52.5°	9792.4	5459.8	1371.7	1628.9	1781.1	1559.4	1334.7	1168.4	1060.4	1337.6	1400.1
55°	10702.1	5478.3	1304.9	1576.4	1734.2	1529.5	1324.8	1123.0	999.3	1178.3	1216.8
57.5°	11864.9	5698.7	1225.3	1509.6	1670.2	1479.7	1289.2	1101.6	980.8	1069.0	1091.7
60°	13162.7	6082.4	1125.8	1442.8	1590.6	1400.1	1262.2	1111.5	989.3	1060.4	1071.7
62.5°	14115.1	6305.6	1040.5	1344.7	1482.6	1312.0	1228.2	1124.3	1012.1	1090.3	1087.4
65°	14373.8	5938.8	933.9	1201.1	1336.2	1219.6	1185.5	1138.5	1022.0	1114.4	1101.6
66°	14011.3	5543.7	887.0	1134.4	1262.2	1174.1	1164.2	1137.2	1017.7	1117.3	1096.0
67.5°	13131.4	4733.4	806.0	1036.2	1144.3	1105.9	1130.1	1124.3	1006.4	1114.4	1084.5
70°	10709.3	3229.6	689.4	862.9	952.4	973.7	1064.7	1078.9	969.5	1064.7	999.3
72.5°	7482.6	1967.3	609.8	669.5	770.4	830.1	975.1	1016.3	919.6	929.7	867.1
75°	3616.1	1044.7	552.9	518.8	598.4	693.7	867.1	931.1	841.5	777.5	754.8
77.5°	1127.2	638.2	469.1	417.9	469.1	560.1	725.0	815.9	749.1	651.0	642.5
80°	605.6	469.1	361.0	335.4	371.0	439.3	570.0	680.9	643.9	584.2	521.7
82.5°	399.5	304.2	267.2	260.1	282.8	335.4	423.6	564.4	564.4	500.3	363.9
85°	206.1	186.2	183.4	183.4	197.5	223.2	288.6	435.0	463.4	264.4	218.9
87.5°	102.3	106.6	99.5	103.7	110.9	109.5	137.9	218.9	261.6	160.6	133.6
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)