

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: P191574

Luminaire Tested: **GLEON-AF-06-LED-E1-T4W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191574
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24147)
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-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 36163.3 lumens
Efficiency: N/A
Efficacy: 108.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B3 - U0 - G5

Input Watts (W): 333
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

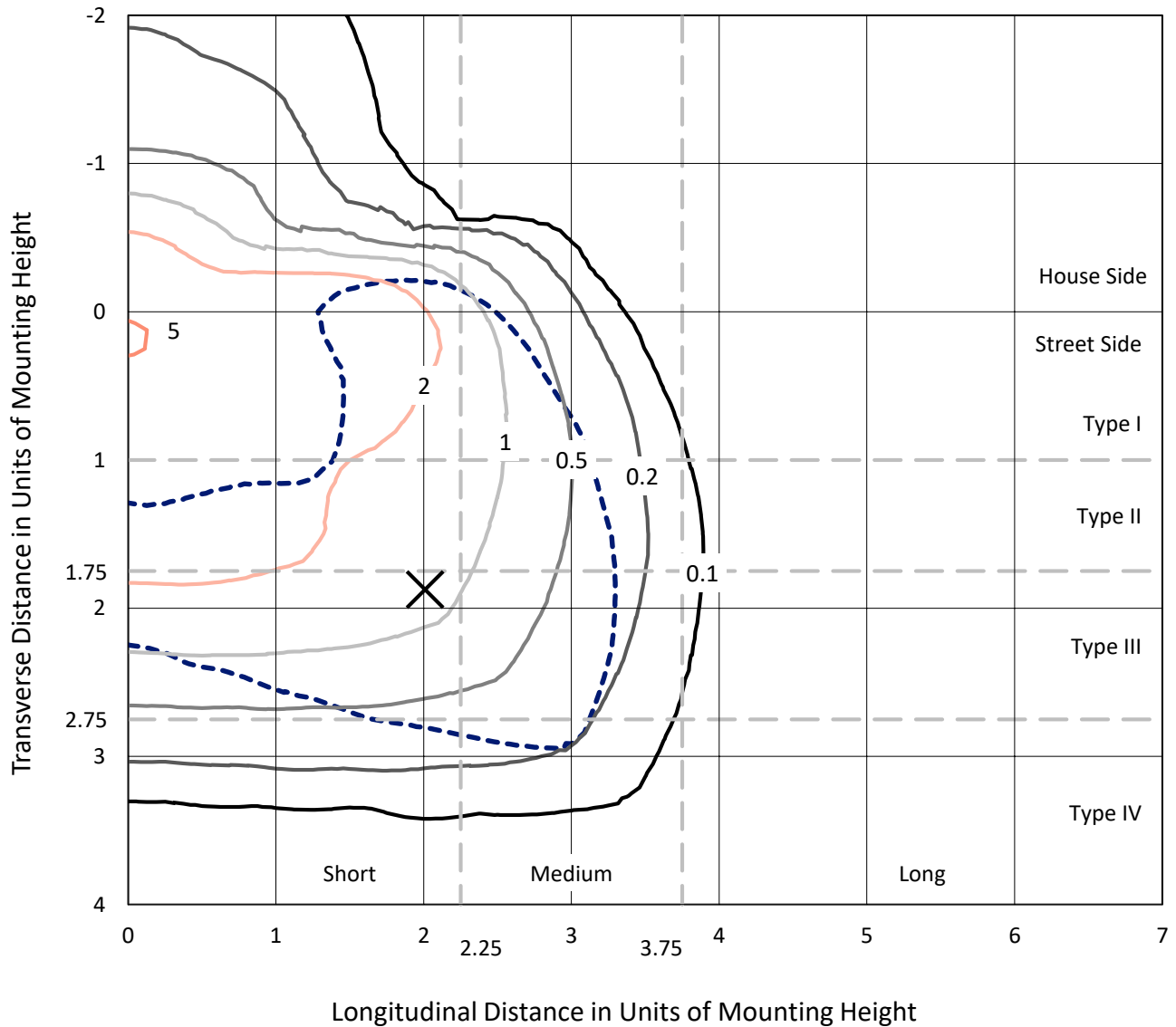


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Iso-Footcandle Lines of Horizontal Illumination

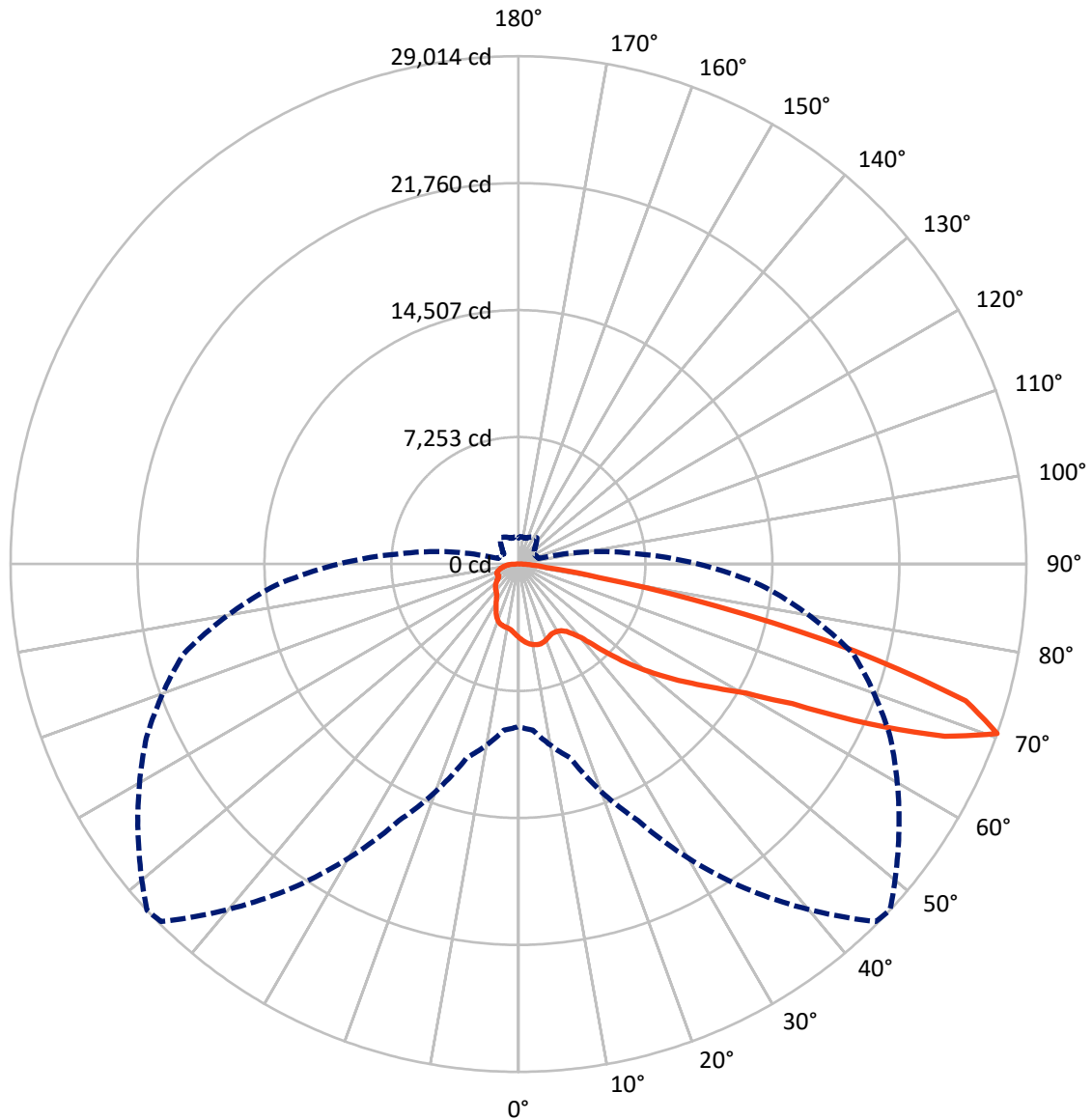
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5.4 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7544.4	0.0	7544.4
	% Fixture	20.9	0.0	20.9
Street Side	Lumens	28619.0	0.0	28619.0
	% Fixture	79.1	0.0	79.1
Total	Lumens	36163.3	0.0	36163.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	402.1	1.1
10°-20°	1179.5	3.3
20°-30°	1741.8	4.8
30°-40°	2531.7	7.0
40°-50°	4556.2	12.6
50°-60°	7893.2	21.8
60°-70°	11265.9	31.2
70°-80°	5783.3	16.0
80°-90°	809.7	2.2
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°	36163.3	100.0
0°-180°	36163.3	100.0



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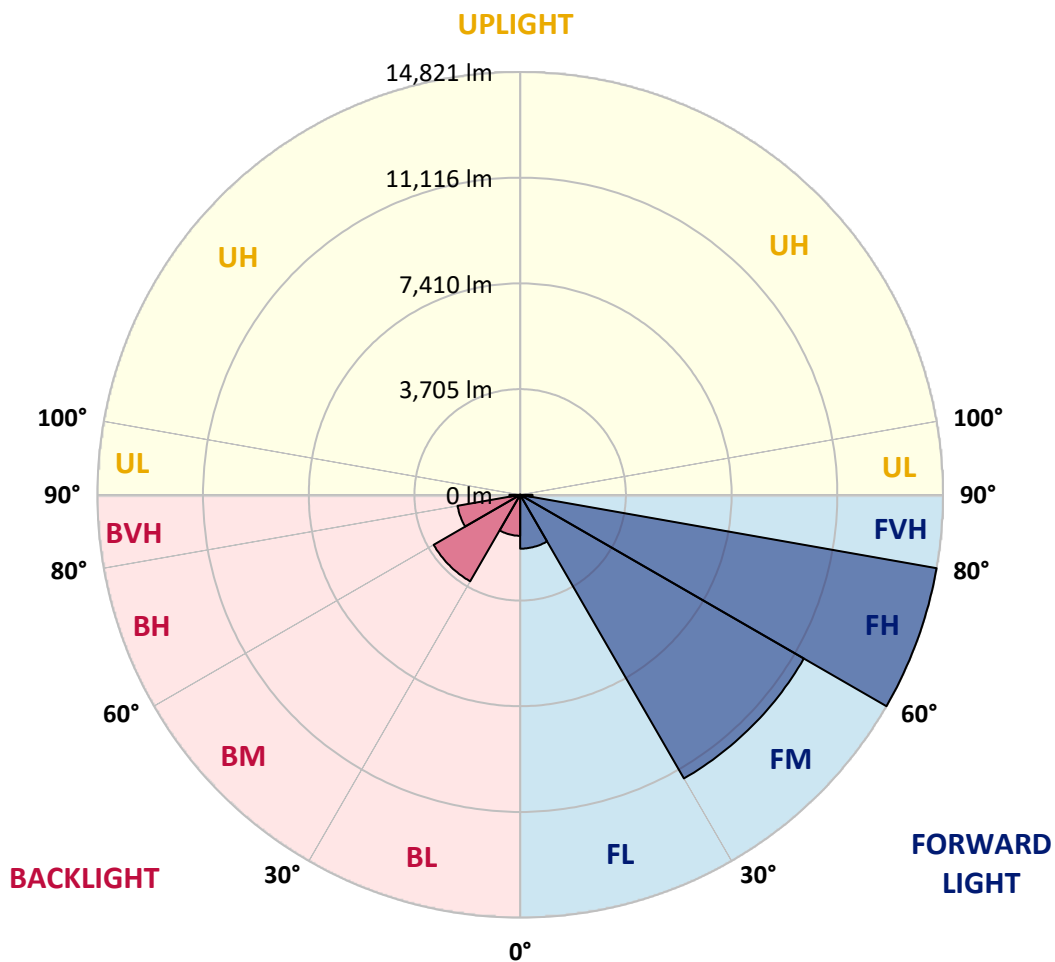
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1886.9	5.2			
FM	(30°-60°)	11479.3	31.7			
FH	(60°-80°)	14820.7	41.0			G5
FVH	(80°-90°)	432.0	1.2			G3/500
BL	(0°-30°)	1436.5	4.0	B3/2500		
BM	(30°-60°)	3501.9	9.7	B3/5000		
BH	(60°-80°)	2228.4	6.2	B3/2500		G3/2500
BVH	(80°-90°)	377.6	1.0			G3/500
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°	45°	47°	55°	65°	75°	85°
0°	4196.0	4196.0	4196.0	4196.0	4196.0	4196.0	4196.0	4196.0	4196.0	4196.0	4196.0
2.5°	4442.4	4433.6	4430.1	4423.0	4414.2	4370.3	4361.5	4329.7	4285.8	4240.0	4192.6
5°	4734.4	4732.7	4713.3	4678.2	4621.8	4525.1	4502.2	4424.8	4320.9	4220.7	4120.4
7.5°	4991.3	4975.4	4938.5	4868.1	4769.6	4637.6	4606.0	4498.7	4356.1	4219.0	4083.5
10°	5179.5	5170.8	5089.8	4993.0	4864.6	4718.6	4681.6	4562.1	4405.4	4231.2	4062.3
12.5°	5286.9	5269.3	5176.0	5059.9	4906.9	4764.4	4727.4	4606.0	4430.1	4231.2	4032.5
15°	5279.9	5267.5	5174.3	5047.6	4892.8	4767.9	4734.4	4613.0	4424.8	4213.6	3993.7
17.5°	5139.1	5144.4	5065.2	4940.2	4813.6	4718.6	4688.7	4576.1	4389.6	4178.4	3948.0
20°	4892.8	4917.4	4864.6	4753.8	4683.4	4618.3	4599.0	4504.0	4335.1	4127.5	3898.8
22.5°	4646.4	4669.4	4648.2	4555.0	4544.5	4505.7	4495.2	4426.5	4287.6	4095.8	3868.8
25°	4465.3	4486.4	4482.9	4402.0	4433.6	4431.8	4423.0	4389.6	4277.0	4095.8	3874.1
27.5°	4416.0	4423.0	4416.0	4342.1	4386.1	4421.3	4414.2	4408.9	4308.7	4146.8	3940.9
30°	4584.9	4574.3	4519.8	4370.3	4410.8	4460.0	4452.9	4456.5	4403.7	4280.5	4090.5
32.5°	5258.7	5211.2	5038.9	4618.3	4511.0	4537.4	4540.9	4599.0	4607.8	4486.4	4322.8
35°	6266.8	6214.0	5990.6	5283.3	4822.4	4730.9	4730.9	4818.9	4871.7	4782.0	4683.4
37.5°	7334.8	7276.8	7157.1	6205.2	5476.9	5067.0	5058.2	5119.8	5195.4	5216.5	5241.1
40°	8548.7	8487.1	8520.6	7239.7	6390.0	5649.3	5524.3	5480.5	5684.5	5820.0	6017.0
42.5°	9877.1	9848.9	9861.2	8392.2	7429.8	6520.2	6342.5	6115.5	6361.8	6602.8	7016.3
45°	11106.9	11131.4	11119.2	9625.5	8587.5	7582.8	7394.6	6954.7	7195.7	7609.2	8283.0
47.5°	12183.5	12081.6	12239.9	10973.1	9884.1	8772.2	8539.9	7950.6	8195.1	8705.3	9845.4
50°	13490.8	13476.7	13244.5	12771.2	11451.7	9966.8	9662.4	8979.8	9359.8	10068.8	11814.1
52.5°	14864.8	14609.7	14396.8	14169.9	13114.2	11191.3	10818.3	10005.5	10728.6	11620.6	14213.9
55°	15146.3	15032.0	15295.9	15677.6	14717.1	12463.3	12028.8	11291.5	12269.8	13394.0	16981.4
57.5°	15748.0	15746.3	16291.7	16972.6	16367.3	13812.7	13374.7	12845.1	14002.8	15426.1	19919.5
60°	16154.4	16268.8	17282.2	18603.5	17987.7	15371.6	14968.6	14637.9	15973.3	17697.5	22657.0
62.5°	16367.3	16522.2	17905.0	19265.0	20278.4	17966.6	17563.7	17087.0	18580.6	20188.7	24258.1
65°	15482.4	15786.8	17808.2	19836.8	22284.1	22173.2	21992.0	21154.5	21840.7	22157.4	23679.3
67.5°	13033.3	13344.7	15698.8	19303.7	23716.2	26230.3	26269.0	24838.7	23846.4	22326.3	19909.0
70°	9285.9	9530.4	11478.0	16184.3	22625.4	28881.7	29013.6	26536.5	23447.0	19799.8	13909.5
72.5°	4408.9	4558.5	6402.3	10533.3	17954.3	26462.5	26717.6	24368.9	19937.1	14659.0	7588.1
75°	1620.4	1666.1	2164.1	4481.1	10413.6	19514.8	19815.7	17468.7	13216.3	7297.8	2890.7
77.5°	971.2	1001.1	1213.9	1891.3	4095.8	11154.4	11599.4	9500.6	5776.0	2716.4	1421.6
80°	679.1	700.2	870.8	1177.0	1935.3	4250.6	4646.4	3877.6	2301.2	1718.9	1034.5
82.5°	459.2	469.7	612.2	795.2	1286.1	1518.4	1637.9	1724.2	1551.7	1279.1	656.2
85°	300.8	311.4	415.2	524.3	818.1	784.7	802.3	1015.2	1133.0	869.1	364.2
87.5°	172.4	179.4	249.8	279.8	401.1	332.6	336.0	534.8	724.9	585.8	221.7
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°	4196.0	4196.0	4196.0	4196.0	4196.0	4196.0	4196.0	4196.0	4196.0	4196.0	4196.0
2.5°	4180.3	4157.4	4106.3	4074.7	4044.7	4037.7	4025.4	4023.7	4021.9	4021.9	4016.6
5°	4087.0	4048.3	3969.2	3925.2	3888.2	3884.7	3882.9	3891.7	3895.2	3898.8	3893.5
7.5°	4027.2	3974.4	3875.9	3812.5	3768.6	3758.0	3775.6	3816.0	3842.4	3853.0	3847.7
10°	3990.2	3925.2	3810.8	3742.2	3705.2	3699.9	3722.8	3770.3	3824.8	3846.0	3844.2
12.5°	3948.0	3874.1	3752.7	3680.6	3659.5	3670.0	3699.9	3743.9	3800.3	3833.6	3835.5
15°	3905.8	3819.6	3694.7	3631.3	3622.5	3636.6	3664.7	3698.2	3742.2	3775.6	3779.1
17.5°	3854.8	3765.1	3640.1	3575.0	3568.0	3575.0	3576.7	3594.3	3622.5	3654.2	3663.0
20°	3800.3	3708.7	3578.6	3513.4	3481.8	3453.6	3422.0	3425.5	3434.3	3466.0	3473.0
22.5°	3761.5	3670.0	3531.0	3441.3	3356.8	3272.4	3209.1	3200.3	3203.8	3230.2	3239.0
25°	3765.1	3668.3	3518.7	3363.9	3179.1	3043.7	2959.3	2945.2	2943.4	2962.8	2975.0
27.5°	3833.6	3736.8	3564.5	3284.7	2985.6	2785.1	2695.4	2684.7	2670.7	2675.9	2690.1
30°	3986.7	3897.0	3675.3	3203.8	2776.3	2531.7	2438.5	2427.9	2408.5	2399.7	2410.3
32.5°	4236.6	4162.7	3837.2	3126.3	2566.9	2315.3	2220.3	2197.4	2185.1	2174.6	2183.4
35°	4651.8	4620.1	4053.5	3041.9	2382.1	2148.2	2062.0	2026.8	2009.2	2028.5	2042.6
37.5°	5302.7	5320.3	4336.8	2910.0	2239.6	2037.3	1965.2	1924.8	1898.4	1914.1	1930.0
40°	6224.7	6236.9	4650.0	2723.5	2116.5	1972.2	1894.8	1857.9	1821.0	1792.8	1791.0
42.5°	7435.0	7310.1	4957.8	2521.2	1974.0	1931.7	1845.6	1799.8	1743.5	1666.1	1650.3
45°	8870.7	8432.6	5191.9	2289.0	1813.9	1882.5	1791.0	1727.7	1639.7	1555.3	1546.5
47.5°	10524.5	9637.7	5306.3	2047.8	1664.3	1810.4	1724.2	1623.9	1513.0	1470.8	1465.6
50°	12544.2	11068.1	5360.8	1813.9	1534.1	1715.4	1627.4	1509.6	1416.3	1407.5	1402.3
52.5°	14843.7	12788.8	5378.4	1622.1	1426.8	1592.2	1548.2	1433.9	1360.0	1367.1	1367.1
55°	17250.5	14565.8	5139.1	1483.2	1328.3	1465.6	1495.5	1404.0	1342.4	1370.5	1381.1
57.5°	19460.3	16140.4	4386.1	1375.9	1235.1	1368.8	1476.1	1432.1	1389.9	1504.2	1511.3
60°	21156.4	17071.1	3275.9	1279.1	1166.5	1335.4	1527.2	1539.4	1550.0	1822.7	1859.6
62.5°	21511.7	16761.5	2252.0	1203.4	1134.8	1363.5	1620.4	1622.1	1609.8	1799.8	1822.7
65°	19880.7	14803.2	1637.9	1161.2	1108.4	1414.5	1699.5	1662.6	1581.7	1725.9	1683.7
67.5°	15788.5	11152.6	1363.5	1129.5	1069.7	1411.1	1784.0	1699.5	1565.8	1690.7	1622.1
70°	10248.2	6743.6	1213.9	1103.2	1024.0	1344.2	1833.2	1696.1	1520.1	1572.9	1492.0
72.5°	5000.1	3015.6	1113.7	1064.4	976.4	1250.9	1831.5	1664.3	1472.5	1469.1	1425.1
75°	1956.4	1381.1	1022.2	1006.4	895.5	1145.3	1782.2	1618.6	1416.3	1360.0	1344.2
77.5°	1145.3	985.2	906.0	920.1	798.7	1039.8	1710.1	1539.4	1338.8	1272.0	1254.4
80°	833.9	737.1	772.3	795.2	682.6	934.3	1613.3	1442.7	1252.7	1286.1	1261.5
82.5°	534.8	475.1	626.4	649.2	568.2	826.9	1507.7	1340.7	1131.3	1027.5	1002.8
85°	272.7	300.8	466.3	494.4	438.1	679.1	1379.3	1205.1	994.0	855.1	869.1
87.5°	153.0	205.8	297.4	332.6	309.6	522.5	1118.9	994.0	811.1	659.8	580.6
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)