

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: P194045

Luminaire Tested: **GLEON-AF-07-LED-E1-T3R-8030-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P194045
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-07-LED-E1-T3R-8030-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 38534 lumens
Efficiency: N/A
Efficacy: 86.0 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Short - Full Cutoff
BUG Rating: B3 - U0 - G5

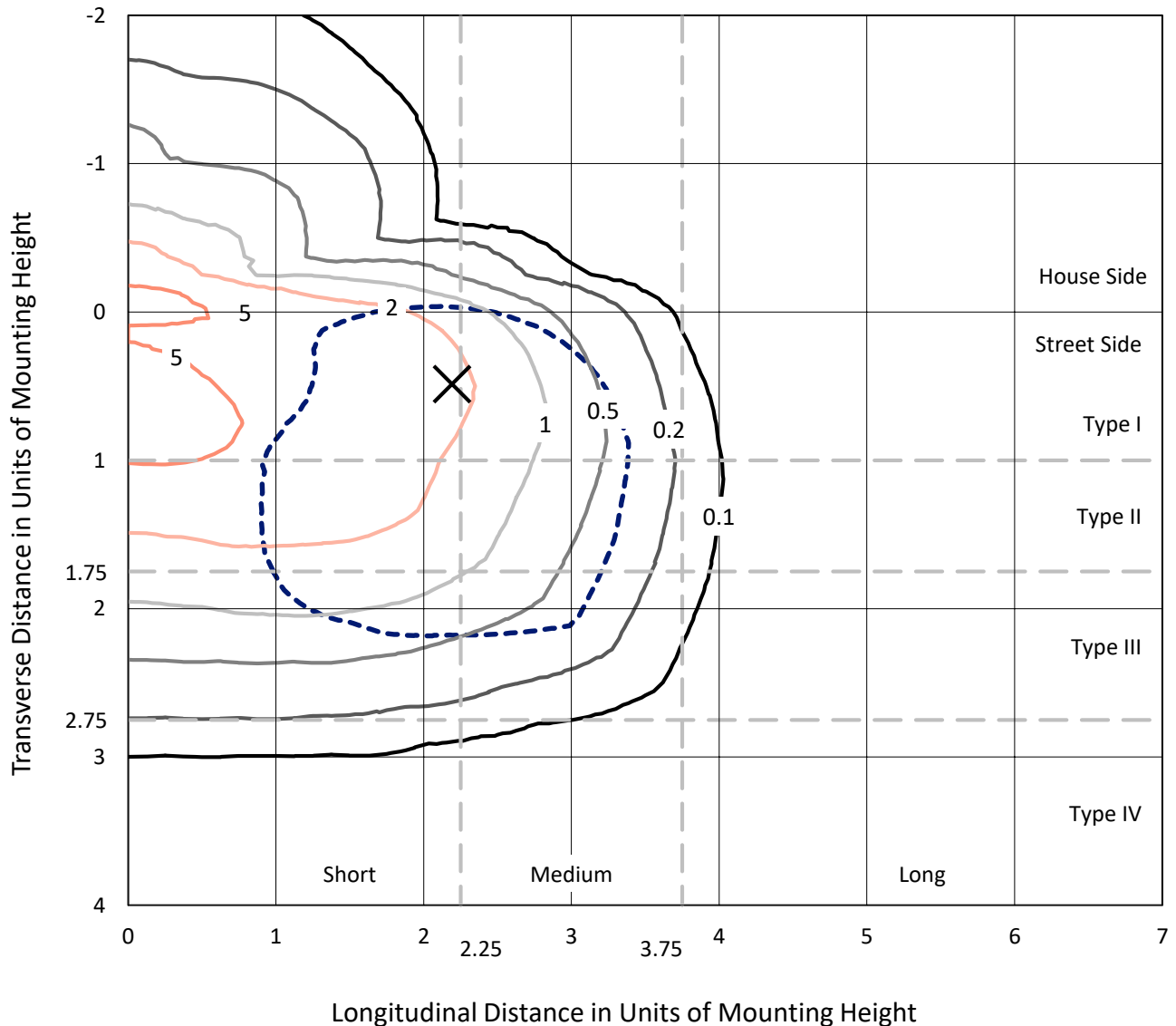
Input Watts (W): 448
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

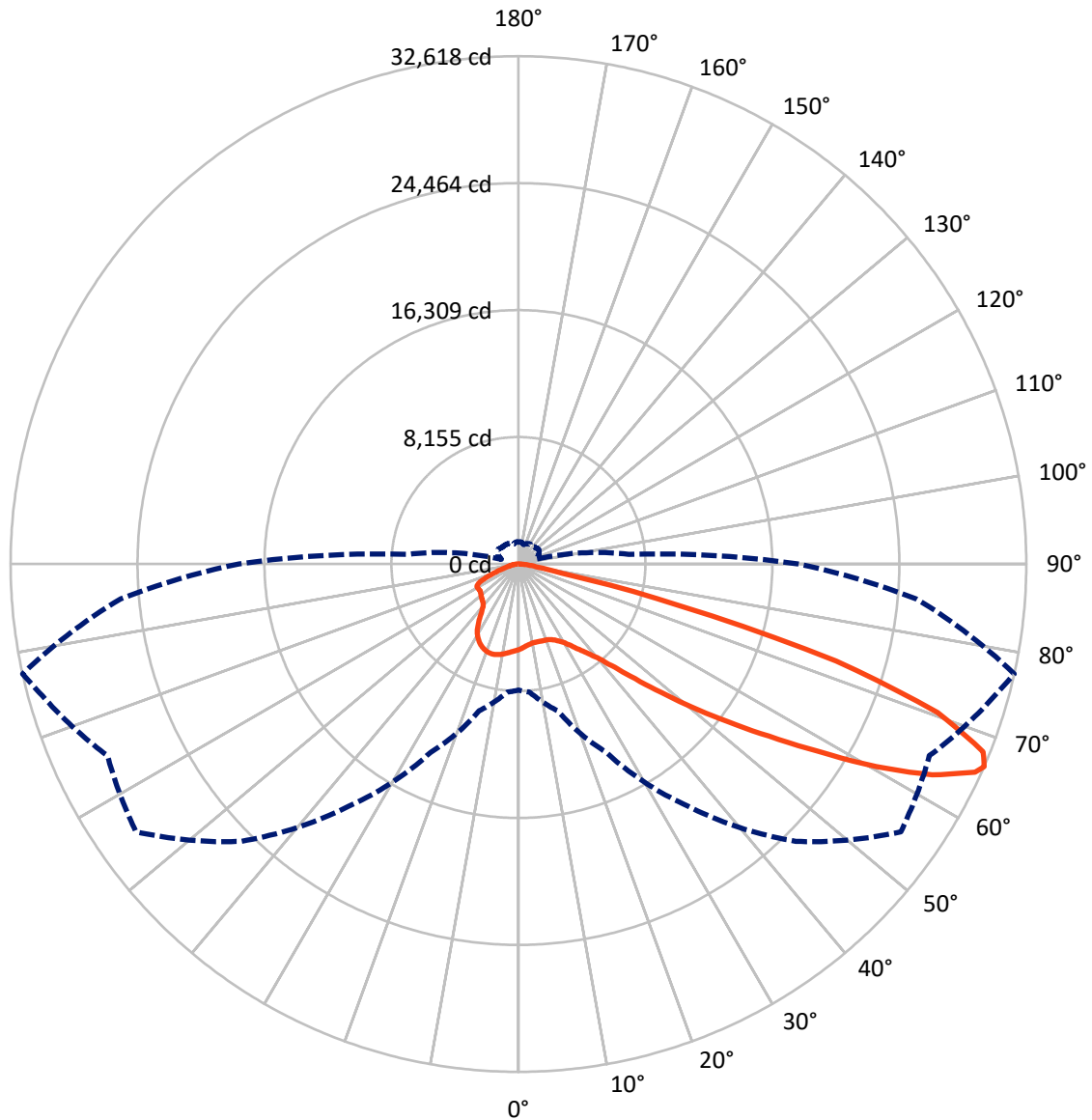
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 7.5 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	6583.3	0.0	6583.3
	% Fixture	17.1	0.0	17.1
Street Side	Lumens	31950.7	0.0	31950.7
	% Fixture	82.9	0.0	82.9
Total	Lumens	38534.0	0.0	38534.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	490.6	1.3
10°-20°	1384.1	3.6
20°-30°	2362.1	6.1
30°-40°	3781.3	9.8
40°-50°	5841.8	15.2
50°-60°	8285.7	21.5
60°-70°	11084.0	28.8
70°-80°	4813.6	12.5
80°-90°	490.8	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°	38534.0	100.0
0°-180°	38534.0	100.0



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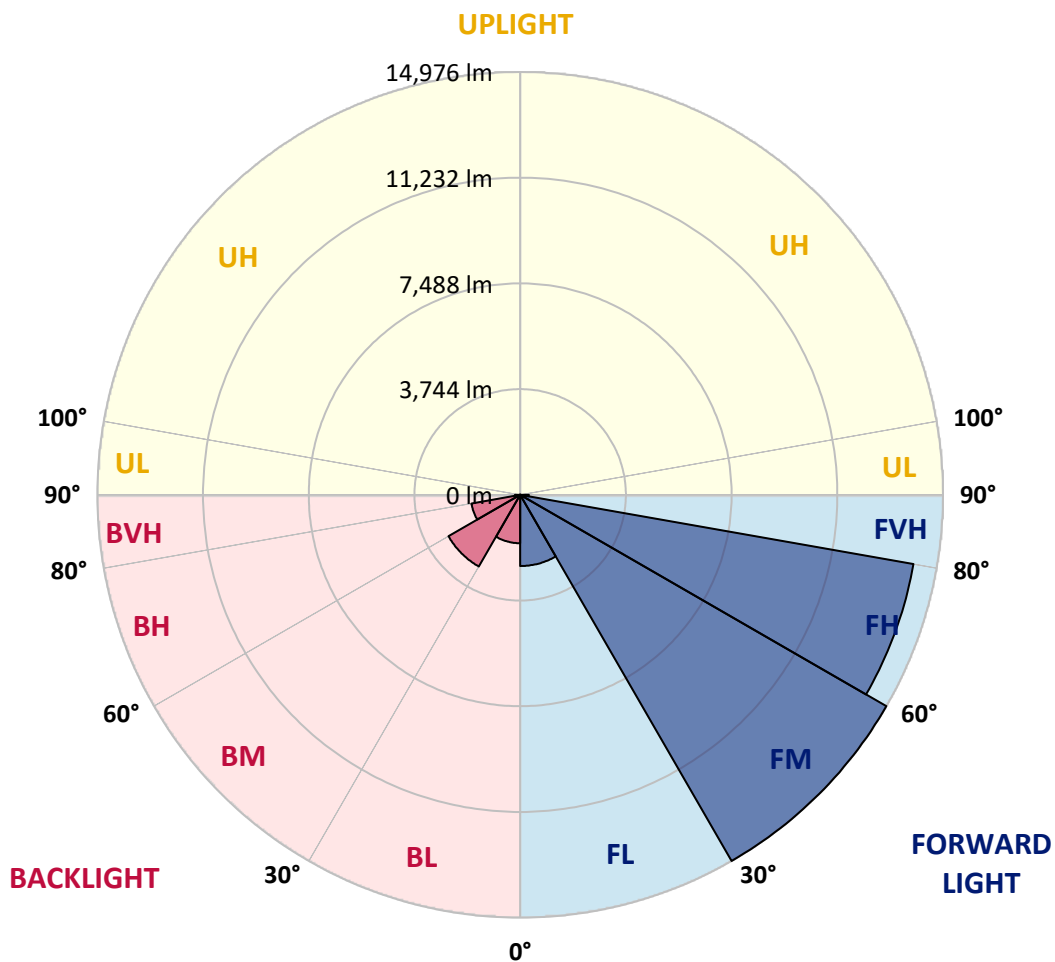
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2522.2	6.5			
FM	(30°-60°)	14976.3	38.9			
FH	(60°-80°)	14144.3	36.7			G5
FVH	(80°-90°)	307.8	0.8			G3/500
BL	(0°-30°)	1714.6	4.4	B3/2500		
BM	(30°-60°)	2932.5	7.6	B3/5000		
BH	(60°-80°)	1753.3	4.5	B3/2500		G3/2500
BVH	(80°-90°)	183.0	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-G5

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77.5°	85°
0°	5491.3	5491.3	5491.3	5491.3	5491.3	5491.3	5491.3	5491.3	5491.3	5491.3	5491.3
2.5°	4857.7	4890.4	4917.8	4943.2	4994.2	5078.0	5174.5	5252.8	5365.6	5387.5	5447.6
5°	4411.6	4411.6	4433.4	4471.7	4540.9	4666.5	4797.6	4972.4	5218.2	5276.4	5436.7
7.5°	4194.9	4196.7	4209.5	4242.3	4302.4	4417.1	4560.9	4766.6	5099.8	5196.3	5469.4
10°	4275.0	4256.8	4229.5	4213.1	4222.2	4289.6	4426.2	4655.6	5027.0	5150.8	5542.3
12.5°	4722.9	4688.3	4593.7	4468.0	4347.9	4298.7	4378.8	4602.8	4996.0	5139.9	5638.8
15°	5454.9	5440.3	5263.7	5003.3	4712.0	4468.0	4413.4	4582.7	4999.7	5152.6	5753.5
17.5°	6372.5	6352.5	6119.4	5740.7	5265.5	4790.3	4535.4	4599.1	5012.4	5174.5	5864.5
20°	7299.2	7237.3	6986.1	6534.5	5924.6	5229.1	4737.5	4641.0	5028.8	5198.1	5981.1
22.5°	7991.1	7940.1	7714.4	7275.6	6572.8	5737.1	5008.8	4713.8	5081.6	5267.3	6124.9
25°	8599.2	8602.9	8378.9	7954.7	7228.2	6276.0	5358.4	4908.6	5216.4	5409.3	6321.5
27.5°	9351.2	9307.5	9098.1	8677.5	7876.4	6820.4	5780.8	5176.3	5416.6	5611.4	6580.1
30°	10250.6	10219.7	9977.5	9500.5	8595.6	7404.9	6263.3	5487.6	5675.2	5877.3	6918.7
32.5°	11308.5	11293.9	11042.6	10429.1	9425.8	8093.1	6829.5	5899.1	6061.2	6270.5	7404.9
35°	12550.2	12552.0	12255.2	11517.8	10334.4	8894.2	7472.2	6428.9	6530.9	6749.4	7983.8
37.5°	13314.9	13407.7	13296.7	12544.7	11363.1	9790.0	8306.1	7131.7	7066.2	7286.5	8604.7
40°	13478.8	13591.6	13943.0	13560.7	12513.8	10776.8	9045.3	7807.2	7725.3	7994.8	9404.0
42.5°	13249.3	13405.9	14148.8	14418.2	13735.5	11993.1	10039.4	8810.4	8706.7	9069.0	10398.1
45°	13112.8	13229.3	14088.7	14864.3	14795.1	13367.7	11304.8	10070.4	10032.1	10507.3	11545.2
47.5°	12876.1	12981.7	13808.3	14968.1	15417.8	14627.6	12825.1	11610.7	11685.4	12308.0	12839.7
50°	13003.6	13047.2	13495.1	14704.1	15598.1	15550.7	14523.8	13395.0	13649.9	14427.4	14305.4
52.5°	12985.3	13098.2	13458.7	14270.8	15621.7	16120.6	16197.1	15385.0	15922.2	16814.3	15931.3
55°	10498.2	10705.8	13030.9	14161.5	15705.5	16679.6	17686.4	17482.5	18483.9	19523.5	17766.5
57.5°	10024.9	10156.0	11445.0	14390.9	16149.7	17746.5	19343.3	19791.2	21466.2	22673.4	20002.4
60°	9932.0	10094.0	11428.6	14671.3	17051.0	19485.3	21799.4	22586.0	25094.9	26416.8	22595.1
62.5°	9642.5	9817.3	11321.2	14634.9	18331.0	21890.5	24943.8	25557.4	28536.1	29821.5	24763.6
65°	8724.9	8888.7	10445.4	14046.8	19194.0	24457.7	28665.3	28281.2	31252.6	32219.4	25845.1
66°	8096.7	8256.9	9755.4	13354.9	18993.7	25186.0	29983.5	29124.2	31860.7	32618.1	25633.9
67.5°	6947.9	7073.5	8415.3	11805.5	17928.6	25389.9	31092.4	29757.8	31924.4	32192.1	24426.7
70°	4389.7	4426.2	5469.4	8149.5	13571.6	22019.7	29404.6	28184.7	29291.7	28567.0	20477.6
72.5°	1904.5	1891.7	2625.5	4145.8	7683.4	14775.1	23785.8	23256.0	22977.4	21324.2	14334.5
75°	1059.7	1074.2	1363.7	1924.5	3122.5	7257.4	15559.8	14889.8	12572.0	10727.7	6500.0
77.5°	850.3	870.3	1130.7	1365.5	1402.0	2530.8	7281.0	5924.6	3566.8	2862.2	1806.1
80°	671.8	708.3	986.8	1063.3	945.0	1043.3	2352.4	1880.8	1411.1	1294.5	935.8
82.5°	531.6	557.1	846.6	804.8	660.9	702.8	1127.0	1097.9	917.6	835.7	540.8
85°	382.4	429.7	695.5	606.3	433.3	473.4	748.3	717.4	526.2	429.7	238.5
87.5°	156.6	203.9	491.6	402.4	242.2	220.3	373.2	351.4	249.4	182.1	118.3
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°	5491.3	5491.3	5491.3	5491.3	5491.3	5491.3	5491.3	5491.3	5491.3	5491.3	5491.3
2.5°	5485.8	5529.5	5586.0	5620.5	5638.8	5651.5	5671.5	5669.7	5675.2	5677.0	5684.3
5°	5522.2	5595.1	5677.0	5698.8	5698.8	5678.8	5658.8	5626.0	5613.3	5609.6	5613.3
7.5°	5616.9	5697.0	5768.0	5742.5	5687.9	5607.8	5504.0	5413.0	5363.8	5347.4	5343.8
10°	5737.1	5833.6	5862.7	5766.2	5606.0	5413.0	5207.2	5057.9	4972.4	4948.7	4941.4
12.5°	5882.7	5973.8	5933.7	5729.8	5433.0	5121.7	4837.6	4599.1	4420.7	4364.3	4360.6
15°	6043.0	6114.0	5973.8	5616.9	5174.5	4715.7	4209.5	3798.0	3575.9	3504.9	3499.4
17.5°	6192.3	6228.7	5950.1	5420.3	4793.9	4051.1	3379.2	3062.4	2986.0	3004.2	3007.8
20°	6319.7	6319.7	5870.0	5138.1	4194.9	3175.3	2751.1	2745.6	2800.3	2854.9	2865.8
22.5°	6459.9	6376.1	5729.8	4739.3	3346.5	2598.2	2536.3	2587.2	2649.1	2709.2	2718.3
25°	6632.9	6421.7	5535.0	4134.8	2630.9	2359.6	2383.3	2425.2	2456.1	2494.4	2499.8
27.5°	6825.9	6479.9	5278.3	3302.8	2283.2	2210.3	2228.6	2243.1	2239.5	2254.0	2257.7
30°	7057.1	6547.3	4926.9	2581.8	2139.3	2082.9	2050.1	2037.4	2037.4	2061.1	2070.2
32.5°	7366.6	6647.4	4422.5	2212.2	2070.2	1991.9	1886.3	1838.9	1857.1	1937.2	1955.4
35°	7707.1	6754.9	3739.7	2086.5	2055.6	1950.0	1786.1	1698.7	1700.5	1775.2	1798.9
37.5°	8078.5	6891.4	2991.4	2062.9	2088.4	1951.8	1733.3	1613.2	1564.0	1564.0	1573.1
40°	8553.7	7031.6	2421.6	2079.3	2157.5	1973.7	1706.0	1545.8	1407.4	1411.1	1418.3
42.5°	9172.8	7151.8	2115.7	2113.9	2241.3	2002.8	1704.2	1456.6	1336.4	1418.3	1493.0
45°	9861.0	7211.9	1980.9	2144.8	2308.7	2021.0	1675.1	1442.0	1345.5	1589.5	1731.5
47.5°	10653.0	7177.3	1906.3	2155.7	2325.1	2021.0	1642.3	1476.6	1409.2	1840.7	2006.4
50°	11521.5	7077.1	1833.5	2133.9	2319.6	2017.4	1673.2	1511.2	1432.9	1884.4	1999.1
52.5°	12542.9	6993.4	1757.0	2086.5	2281.4	1997.3	1709.7	1496.6	1358.3	1713.3	1793.4
55°	13708.2	7017.0	1671.4	2019.2	2221.3	1959.1	1696.9	1438.4	1280.0	1509.4	1558.5
57.5°	15197.5	7299.2	1569.5	1933.6	2139.3	1895.4	1651.4	1411.1	1256.3	1369.2	1398.3
60°	16859.8	7790.8	1442.0	1848.0	2037.4	1793.4	1616.8	1423.8	1267.2	1358.3	1372.8
62.5°	18079.7	8076.7	1332.8	1722.4	1899.0	1680.5	1573.1	1440.2	1296.3	1396.5	1392.8
65°	18411.1	7606.9	1196.2	1538.5	1711.5	1562.2	1518.5	1458.4	1309.1	1427.4	1411.1
66°	17946.8	7100.8	1136.1	1452.9	1616.8	1503.9	1491.2	1456.6	1303.6	1431.1	1403.8
67.5°	16819.8	6063.0	1032.3	1327.3	1465.7	1416.5	1447.5	1440.2	1289.1	1427.4	1389.2
70°	13717.3	4136.7	883.0	1105.2	1219.9	1247.2	1363.7	1381.9	1241.7	1363.7	1280.0
72.5°	9584.2	2519.9	781.1	857.6	986.8	1063.3	1249.0	1301.8	1178.0	1190.7	1110.6
75°	4631.9	1338.2	708.3	664.6	766.5	888.5	1110.6	1192.6	1077.9	995.9	966.8
77.5°	1443.8	817.5	600.8	535.3	600.8	717.4	928.6	1045.1	959.5	833.9	823.0
80°	775.6	600.8	462.5	429.7	475.2	562.6	730.1	872.1	824.8	748.3	668.2
82.5°	511.6	389.6	342.3	333.2	362.3	429.7	542.6	722.8	722.8	640.9	466.1
85°	264.0	238.5	234.9	234.9	253.1	285.9	369.6	557.1	593.6	338.7	280.4
87.5°	131.1	136.6	127.5	132.9	142.0	140.2	176.6	280.4	335.0	205.7	171.1
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)