

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: P194035

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P194035
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
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 35127 lumens
Efficiency: N/A
Efficacy: 89.8 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

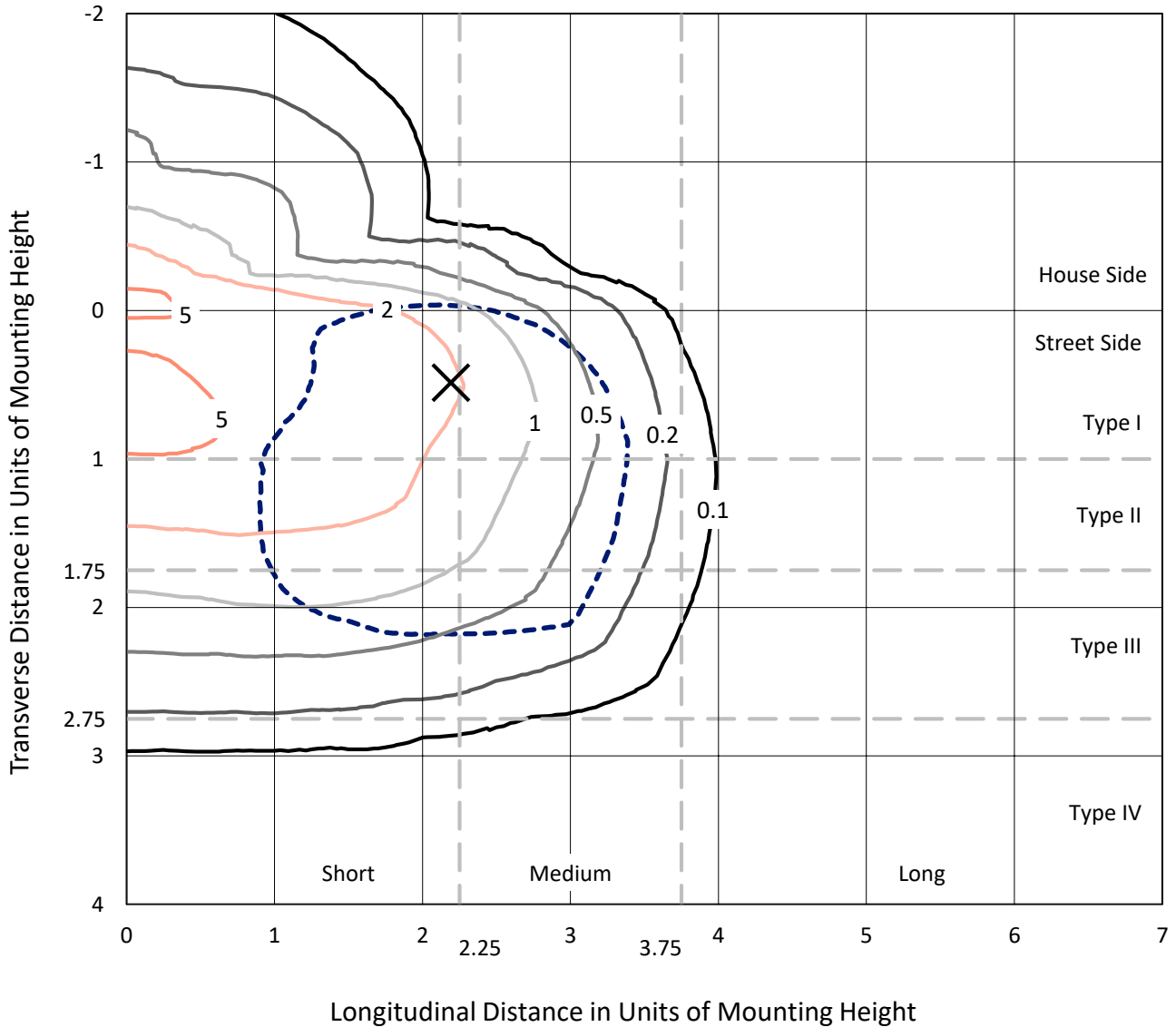
Input Watts (W): 391
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P194035
 CATALOG NUMBER: GLEON-AF-07-LED-E1-T3R-8030

Iso-Footcandle Lines of Horizontal Illumination

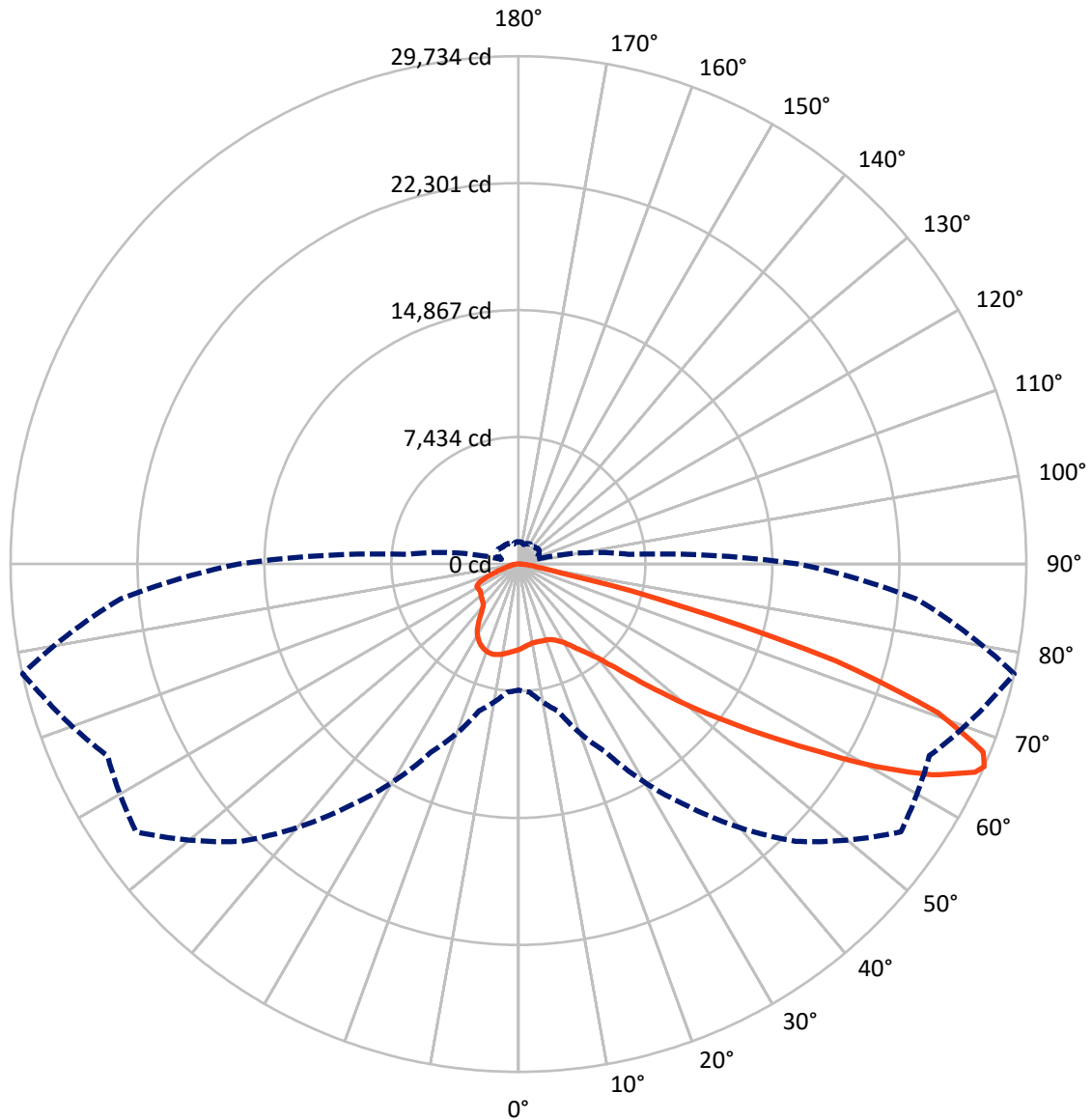
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.9 fc
 Type III - Short - Full Cutoff

REPORT NUMBER: P194035
CATALOG NUMBER: GLEON-AF-07-LED-E1-T3R-8030

Luminous Intensity Polar Plot



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

REPORT NUMBER: P194035

CATALOG NUMBER: GLEON-AF-07-LED-E1-T3R-8030

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6001.2	0.0	6001.2
	% Fixture	17.1	0.0	17.1
Street Side	Lumens	29125.8	0.0	29125.8
	% Fixture	82.9	0.0	82.9
Total	Lumens	35127.0	0.0	35127.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	447.2	1.3
10°-20°	1261.7	3.6
20°-30°	2153.3	6.1
30°-40°	3447.0	9.8
40°-50°	5325.3	15.2
50°-60°	7553.1	21.5
60°-70°	10104.0	28.8
70°-80°	4388.0	12.5
80°-90°	447.4	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°	35127.0	100.0
0°-180°	35127.0	100.0



REPORT NUMBER: P194035

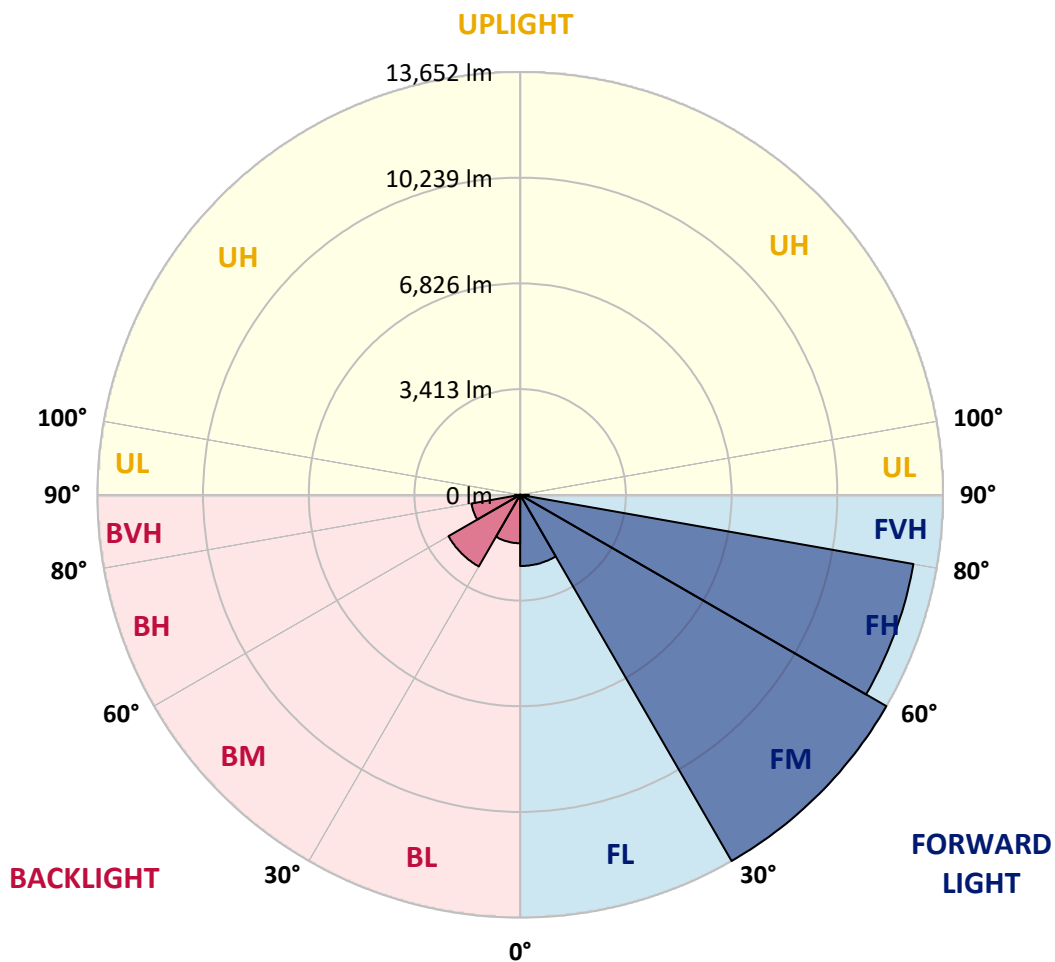
CATALOG NUMBER: GLEON-AF-07-LED-E1-T3R-8030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2299.2	6.5			
FM	(30°-60°)	13652.2	38.9			
FH	(60°-80°)	12893.7	36.7			G5
FVH	(80°-90°)	280.6	0.8			G3/500
BL	(0°-30°)	1563.0	4.4	B3/2500		
BM	(30°-60°)	2673.2	7.6	B3/5000		
BH	(60°-80°)	1598.2	4.5	B3/2500		G3/2500
BVH	(80°-90°)	166.8	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





REPORT NUMBER: P194035
 CATALOG NUMBER: GLEON-AF-07-LED-E1-T3R-8030

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77.5°	85°
0°	5005.8	5005.8	5005.8	5005.8	5005.8	5005.8	5005.8	5005.8	5005.8	5005.8	5005.8
2.5°	4428.2	4458.1	4482.9	4506.2	4552.7	4629.0	4717.0	4788.3	4891.2	4911.2	4965.9
5°	4021.5	4021.5	4041.5	4076.3	4139.4	4253.9	4373.4	4532.7	4756.8	4809.9	4956.0
7.5°	3824.0	3825.7	3837.3	3867.2	3922.0	4026.5	4157.6	4345.2	4648.9	4736.9	4985.8
10°	3897.1	3880.5	3855.6	3840.6	3848.9	3910.3	4034.8	4243.9	4582.5	4695.4	5052.2
12.5°	4305.4	4273.8	4187.5	4073.0	3963.5	3918.6	3991.7	4195.8	4554.3	4685.4	5140.2
15°	4972.6	4959.3	4798.3	4561.0	4295.4	4073.0	4023.2	4177.6	4557.6	4697.1	5244.8
17.5°	5809.1	5790.8	5578.4	5233.1	4800.0	4366.8	4134.4	4192.5	4569.3	4717.0	5346.0
20°	6653.9	6597.5	6368.4	5956.8	5400.8	4766.8	4318.6	4230.7	4584.2	4738.5	5452.2
22.5°	7284.6	7238.1	7032.3	6632.3	5991.6	5229.8	4565.9	4297.1	4632.3	4801.6	5583.4
25°	7838.9	7842.3	7638.1	7251.4	6589.2	5721.1	4884.6	4474.6	4755.1	4931.1	5762.6
27.5°	8524.4	8484.6	8293.7	7910.3	7180.0	6217.4	5269.7	4718.6	4937.7	5115.3	5998.3
30°	9344.3	9316.1	9095.4	8660.5	7835.6	6750.1	5709.5	5002.4	5173.4	5357.6	6307.0
32.5°	10308.6	10295.3	10066.3	9507.0	8592.5	7377.5	6225.7	5377.5	5525.3	5716.1	6750.1
35°	11440.6	11442.2	11171.7	10499.5	9420.7	8107.8	6811.6	5860.5	5953.5	6152.6	7277.9
37.5°	12137.7	12222.3	12121.1	11435.6	10358.4	8924.4	7571.7	6501.2	6441.4	6642.3	7843.9
40°	12287.0	12389.9	12710.3	12361.7	11407.4	9824.0	8245.6	7116.9	7042.3	7287.9	8572.5
42.5°	12077.9	12220.6	12897.8	13143.5	12521.1	10932.7	9151.8	8031.5	7936.9	8267.1	9478.8
45°	11953.4	12059.6	12843.0	13550.1	13487.0	12185.8	10305.3	9180.0	9145.1	9578.3	10524.4
47.5°	11737.7	11833.9	12587.4	13644.7	14054.6	13334.3	11691.2	10584.1	10652.2	11219.8	11704.5
50°	11853.8	11893.7	12302.0	13404.0	14219.0	14175.8	13239.7	12210.7	12443.0	13151.7	13040.5
52.5°	11837.2	11940.1	12268.8	13009.0	14240.5	14695.3	14765.0	14024.8	14514.4	15327.7	14522.7
55°	9570.0	9759.2	11878.7	12909.4	14316.9	15204.8	16122.7	15936.8	16849.6	17797.4	16195.7
57.5°	9138.5	9258.0	10433.1	13118.6	14721.9	16177.4	17633.0	18041.3	19568.3	20668.7	18233.9
60°	9053.9	9201.6	10418.2	13374.2	15543.4	17762.5	19872.0	20589.0	22876.1	24081.1	20597.3
62.5°	8790.0	8949.3	10320.2	13341.0	16710.2	19955.0	22738.4	23297.7	26013.0	27184.8	22574.1
65°	7953.5	8102.8	9521.9	12804.9	17496.9	22295.2	26130.9	25780.7	28489.4	29370.7	23560.0
66°	7380.8	7526.9	8892.9	12174.2	17314.4	22959.1	27332.5	26549.1	29043.7	29734.2	23367.4
67.5°	6333.6	6448.1	7671.3	10761.7	16343.4	23145.0	28343.3	27126.7	29101.8	29345.8	22267.0
70°	4001.6	4034.8	4985.8	7429.0	12371.7	20072.8	26804.7	25692.7	26701.8	26041.3	18667.1
72.5°	1736.1	1724.5	2393.3	3779.2	7004.1	13468.8	21682.8	21199.8	20945.9	19438.8	13067.1
75°	966.0	979.2	1243.1	1754.3	2846.4	6615.7	14184.1	13573.3	11460.5	9779.2	5925.3
77.5°	775.1	793.4	1030.7	1244.8	1278.0	2307.0	6637.3	5400.8	3251.4	2609.1	1646.5
80°	612.4	645.6	899.6	969.3	861.4	951.0	2144.4	1714.5	1286.3	1180.1	853.1
82.5°	484.6	507.9	771.8	733.6	602.5	640.7	1027.4	1000.8	836.5	761.8	492.9
85°	348.5	391.7	634.0	552.7	395.0	431.5	682.2	653.9	479.7	391.7	217.4
87.5°	142.7	185.9	448.1	366.8	220.7	200.8	340.2	320.3	227.4	166.0	107.9
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: P194035
 CATALOG NUMBER: GLEON-AF-07-LED-E1-T3R-8030

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5005.8	5005.8	5005.8	5005.8	5005.8	5005.8	5005.8	5005.8	5005.8	5005.8	5005.8
2.5°	5000.8	5040.6	5092.1	5123.6	5140.2	5151.8	5170.1	5168.4	5173.4	5175.1	5181.7
5°	5034.0	5100.4	5175.1	5195.0	5195.0	5176.7	5158.5	5128.6	5117.0	5113.6	5117.0
7.5°	5120.3	5193.3	5258.0	5234.8	5185.0	5112.0	5017.4	4934.4	4889.6	4874.6	4871.3
10°	5229.8	5317.8	5344.4	5256.4	5110.3	4934.4	4746.8	4610.7	4532.7	4511.2	4504.5
12.5°	5362.6	5445.6	5409.1	5223.2	4952.7	4668.8	4409.9	4192.5	4029.8	3978.4	3975.1
15°	5508.7	5573.4	5445.6	5120.3	4717.0	4298.7	3837.3	3462.2	3259.7	3195.0	3190.0
17.5°	5644.8	5678.0	5424.0	4941.0	4370.1	3692.9	3080.5	2791.7	2722.0	2738.6	2741.9
20°	5760.9	5760.9	5351.0	4683.8	3824.0	2894.6	2507.9	2502.9	2552.7	2602.5	2612.4
22.5°	5888.7	5812.4	5223.2	4320.3	3050.6	2368.4	2312.0	2358.5	2414.9	2469.7	2478.0
25°	6046.4	5853.9	5045.6	3769.3	2398.3	2151.0	2172.6	2210.8	2239.0	2273.8	2278.8
27.5°	6222.4	5907.0	4811.6	3010.8	2081.3	2014.9	2031.5	2044.8	2041.5	2054.8	2058.1
30°	6433.1	5968.4	4491.2	2353.5	1950.2	1898.7	1868.9	1857.2	1857.2	1878.8	1887.1
32.5°	6715.3	6059.7	4031.5	2016.6	1887.1	1815.8	1719.5	1676.3	1692.9	1766.0	1782.6
35°	7025.7	6157.6	3409.1	1902.1	1873.8	1777.6	1628.2	1548.5	1550.2	1618.2	1639.8
37.5°	7364.2	6282.1	2726.9	1880.5	1903.7	1779.2	1580.1	1470.5	1425.7	1425.7	1434.0
40°	7797.4	6409.9	2207.4	1895.4	1966.8	1799.2	1555.2	1409.1	1283.0	1286.3	1292.9
42.5°	8361.8	6519.4	1928.6	1927.0	2043.1	1825.7	1553.5	1327.8	1218.2	1292.9	1361.0
45°	8989.1	6574.2	1805.8	1955.2	2104.5	1842.3	1527.0	1314.5	1226.5	1448.9	1578.4
47.5°	9711.1	6542.7	1737.7	1965.1	2119.5	1842.3	1497.1	1346.0	1284.6	1678.0	1829.0
50°	10502.8	6451.4	1671.4	1945.2	2114.5	1839.0	1525.3	1377.6	1306.2	1717.8	1822.4
52.5°	11433.9	6375.0	1601.6	1902.1	2079.6	1820.7	1558.5	1364.3	1238.2	1561.8	1634.8
55°	12496.2	6396.6	1523.6	1840.6	2024.9	1785.9	1546.9	1311.2	1166.8	1375.9	1420.7
57.5°	13853.8	6653.9	1430.7	1762.6	1950.2	1727.8	1505.4	1286.3	1145.2	1248.1	1274.7
60°	15369.2	7102.0	1314.5	1684.6	1857.2	1634.8	1473.8	1297.9	1155.2	1238.2	1251.4
62.5°	16481.2	7362.6	1214.9	1570.1	1731.1	1531.9	1434.0	1312.9	1181.7	1273.0	1269.7
65°	16783.3	6934.4	1090.4	1402.5	1560.2	1424.1	1384.2	1329.4	1193.4	1301.2	1286.3
66°	16360.0	6473.0	1035.7	1324.5	1473.8	1370.9	1359.3	1327.8	1188.4	1304.6	1279.7
67.5°	15332.6	5526.9	941.1	1209.9	1336.1	1291.3	1319.5	1312.9	1175.1	1301.2	1266.4
70°	12504.5	3770.9	805.0	1007.5	1112.0	1136.9	1243.1	1259.7	1131.9	1243.1	1166.8
72.5°	8736.9	2297.1	712.0	781.7	899.6	969.3	1138.6	1186.7	1073.8	1085.5	1012.4
75°	4222.4	1219.9	645.6	605.8	698.7	810.0	1012.4	1087.1	982.6	907.9	881.3
77.5°	1316.2	745.2	547.7	488.0	547.7	653.9	846.5	952.7	874.7	760.2	750.2
80°	707.0	547.7	421.6	391.7	433.2	512.9	665.6	795.0	751.9	682.2	609.1
82.5°	466.4	355.2	312.0	303.7	330.3	391.7	494.6	658.9	658.9	584.2	424.9
85°	240.7	217.4	214.1	214.1	230.7	260.6	336.9	507.9	541.1	308.7	255.6
87.5°	119.5	124.5	116.2	121.2	129.5	127.8	161.0	255.6	305.4	187.6	156.0
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)