

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: P269671

Luminaire Tested: **GLEON-AF-09-LED-E1-T3R-7027-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269671
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-09-LED-E1-T3R-7027-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 2700K, 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: 38192.4 lumens
Efficiency: N/A
Efficacy: 102.1 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type III - Short - Full Cutoff
BUG Rating: B3 - U0 - G5

Input Watts (W): 374
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

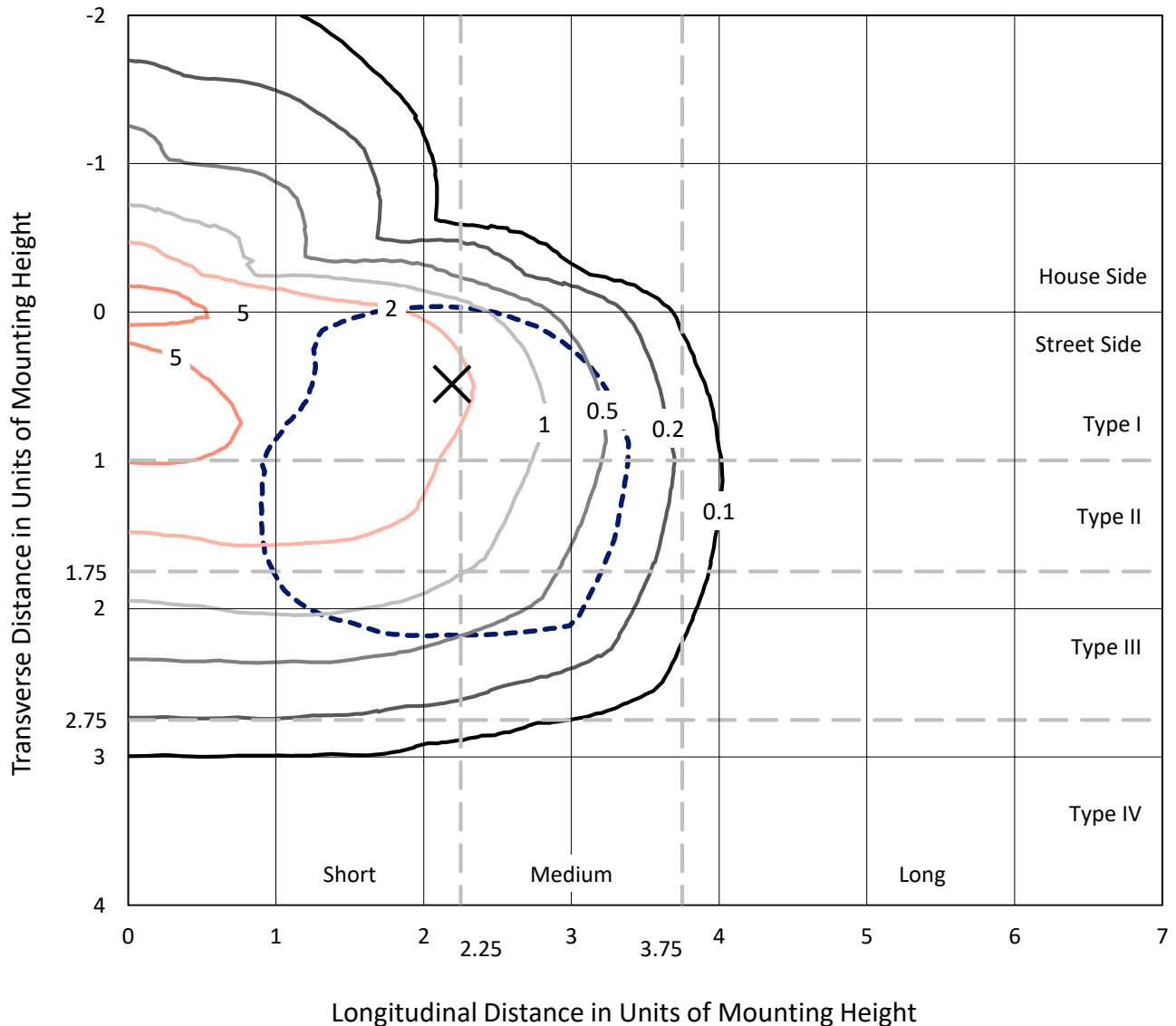


REPORT NUMBER: P269671

CATALOG NUMBER: GLEON-AF-09-LED-E1-T3R-7027-800

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

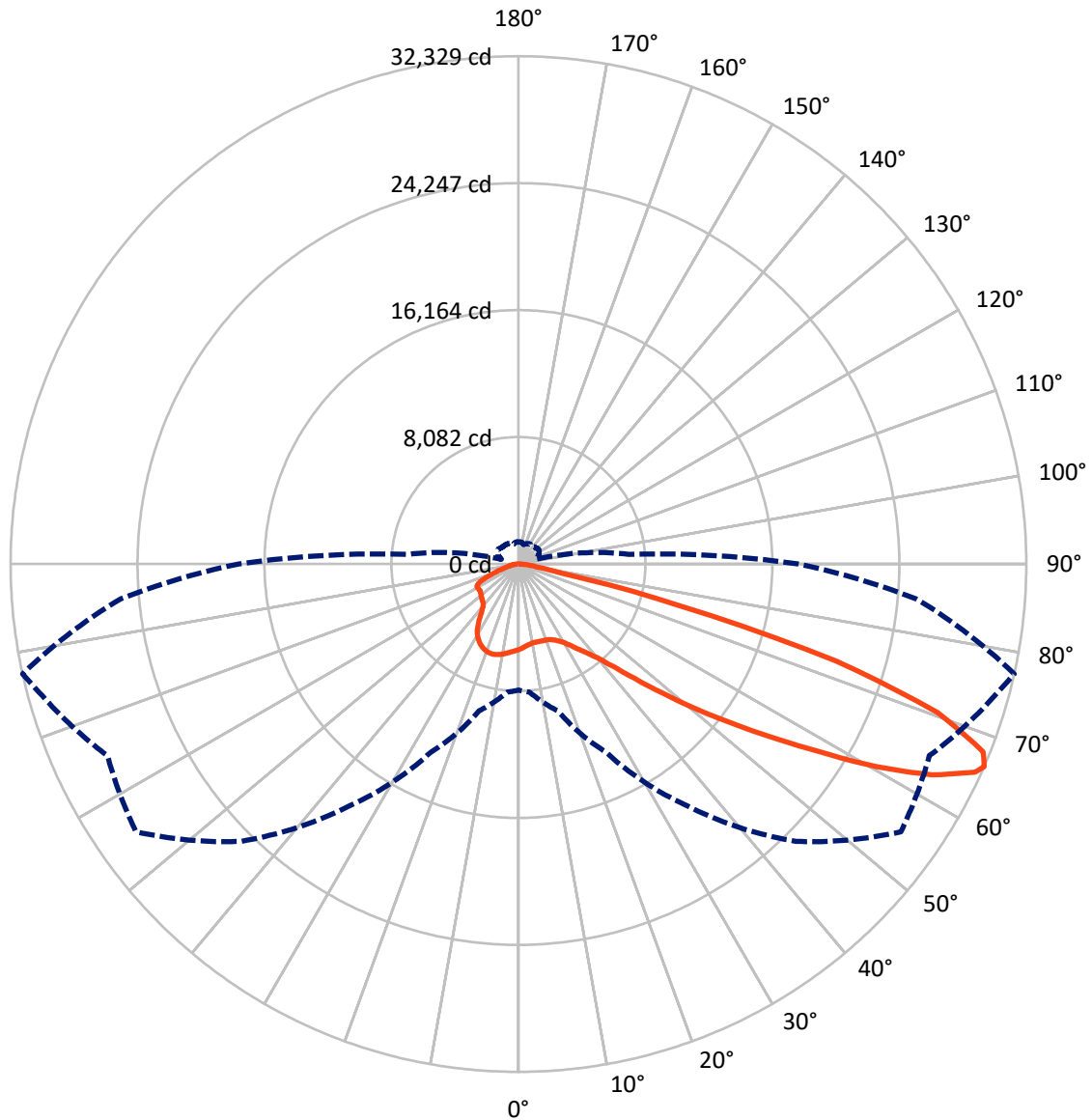


Based on 30 foot mounting height. Maximum calculated value = 7.5 fc
 Type III - Short - Full Cutoff

REPORT NUMBER: P269671

CATALOG NUMBER: GLEON-AF-09-LED-E1-T3R-7027-800

Luminous Intensity Polar Plot



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

REPORT NUMBER: P269671

CATALOG NUMBER: GLEON-AF-09-LED-E1-T3R-7027-800

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6524.9	0.0	6524.9
	% Fixture	17.1	0.0	17.1
Street Side	Lumens	31667.5	0.0	31667.5
	% Fixture	82.9	0.0	82.9
Total	Lumens	38192.4	0.0	38192.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	486.3	1.3
10°-20°	1371.8	3.6
20°-30°	2341.2	6.1
30°-40°	3747.8	9.8
40°-50°	5790.0	15.2
50°-60°	8212.2	21.5
60°-70°	10985.7	28.8
70°-80°	4770.9	12.5
80°-90°	486.5	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°	38192.4	100.0
0°-180°	38192.4	100.0

Coefficient of Utilization



REPORT NUMBER: P269671

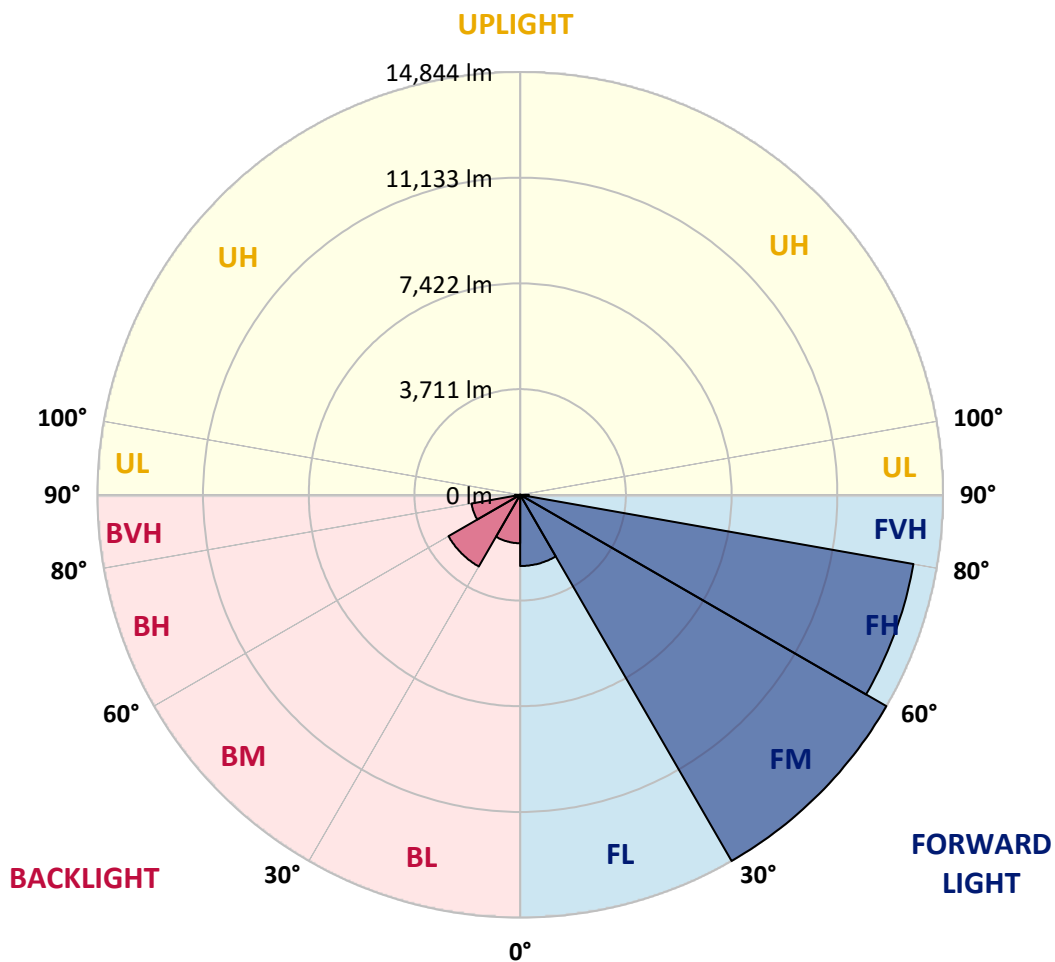
CATALOG NUMBER: GLEON-AF-09-LED-E1-T3R-7027-800

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2499.9	6.5			
FM	(30°-60°)	14843.6	38.9			
FH	(60°-80°)	14018.9	36.7			G5
FVH	(80°-90°)	305.1	0.8			G3/500
BL	(0°-30°)	1699.4	4.4	B3/2500		
BM	(30°-60°)	2906.5	7.6	B3/5000		
BH	(60°-80°)	1737.7	4.5	B3/2500		G3/2500
BVH	(80°-90°)	181.4	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: P269671

CATALOG NUMBER: GLEON-AF-09-LED-E1-T3R-7027-800

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77.5°	85°
0°	5442.7	5442.7	5442.7	5442.7	5442.7	5442.7	5442.7	5442.7	5442.7	5442.7	5442.7
2.5°	4814.6	4847.1	4874.2	4899.4	4949.9	5032.9	5128.7	5206.1	5318.1	5339.7	5399.4
5°	4372.5	4372.5	4394.1	4432.1	4500.6	4625.2	4755.1	4928.3	5171.9	5229.7	5388.5
7.5°	4157.7	4159.5	4172.2	4204.6	4264.3	4377.9	4520.5	4724.4	5054.7	5150.3	5420.9
10°	4237.1	4219.1	4192.0	4175.9	4184.8	4251.6	4387.0	4614.4	4982.4	5105.2	5493.1
12.5°	4681.1	4646.8	4552.9	4428.5	4309.3	4260.7	4340.0	4562.0	4951.7	5094.3	5588.7
15°	5406.4	5392.0	5217.0	4959.0	4670.3	4428.5	4374.2	4542.1	4955.4	5107.0	5702.4
17.5°	6316.1	6296.2	6065.1	5689.9	5218.9	4747.8	4495.2	4558.4	4967.9	5128.7	5812.6
20°	7234.5	7173.1	6924.1	6476.6	5872.1	5182.7	4695.5	4600.0	4984.2	5152.0	5928.1
22.5°	7920.3	7869.7	7646.0	7211.1	6514.5	5686.2	4964.5	4672.1	5036.5	5220.6	6070.6
25°	8522.9	8526.6	8304.7	7884.2	7164.2	6220.4	5310.9	4865.1	5170.1	5361.4	6265.5
27.5°	9268.4	9225.0	9017.5	8600.6	7806.6	6759.9	5729.5	5130.4	5368.6	5561.6	6521.8
30°	10159.7	10129.1	9889.1	9416.3	8519.3	7339.2	6207.7	5439.0	5624.8	5825.1	6857.4
32.5°	11208.2	11193.8	10944.7	10336.5	9342.4	8021.3	6769.0	5846.8	6007.4	6215.0	7339.2
35°	12438.9	12440.7	12146.6	11415.8	10242.7	8815.3	7405.9	6371.9	6472.9	6689.6	7913.1
37.5°	13196.9	13288.8	13178.9	12433.5	11262.3	9703.2	8232.4	7068.6	7003.5	7222.0	8528.4
40°	13359.2	13471.2	13819.4	13440.5	12402.9	10681.2	8965.2	7738.0	7656.9	7923.9	9320.6
42.5°	13132.0	13287.1	14023.4	14290.4	13613.8	11886.7	9950.4	8732.3	8629.5	8988.6	10306.0
45°	12996.6	13112.0	13963.9	14732.6	14664.0	13249.2	11204.6	9981.1	9943.2	10414.2	11442.8
47.5°	12762.0	12866.7	13685.9	14835.4	15281.2	14497.9	12711.5	11507.7	11581.8	12199.0	12725.8
50°	12888.3	12931.6	13375.6	14573.7	15459.8	15412.8	14395.1	13276.3	13529.0	14299.4	14178.6
52.5°	12870.2	12982.1	13339.4	14144.3	15483.2	15977.8	16053.5	15248.6	15781.1	16665.3	15790.0
55°	10405.2	10610.9	12915.3	14035.9	15566.3	16531.7	17529.6	17327.5	18320.0	19350.5	17609.0
57.5°	9936.1	10065.9	11343.5	14263.4	16006.5	17589.3	19171.7	19615.7	21275.9	22472.4	19825.1
60°	9843.9	10004.6	11327.3	14541.3	16899.9	19312.5	21606.2	22385.8	24872.5	26182.5	22394.7
62.5°	9557.0	9730.4	11220.9	14505.2	18168.5	21696.5	24722.7	25330.9	28283.0	29557.1	24544.0
65°	8647.5	8809.9	10352.8	13922.3	19023.9	24240.9	28411.2	28030.4	30975.5	31933.8	25616.0
66°	8025.0	8183.7	9668.8	13236.5	18825.3	24962.7	29717.6	28866.0	31578.3	32328.9	25406.7
67.5°	6886.2	7010.8	8340.8	11700.9	17769.6	25164.8	30816.7	29494.1	31641.4	31906.7	24210.2
70°	4350.9	4387.0	5420.9	8077.3	13451.3	21824.5	29143.9	27934.9	29032.1	28313.8	20296.0
72.5°	1887.6	1874.9	2602.2	4108.9	7615.3	14644.1	23574.9	23049.8	22773.7	21135.2	14207.5
75°	1050.3	1064.8	1351.6	1907.5	3094.8	7193.1	15421.9	14757.9	12460.6	10632.6	6442.4
77.5°	842.7	862.6	1120.6	1353.4	1389.5	2508.3	7216.5	5872.1	3535.2	2836.8	1790.1
80°	666.0	701.9	978.1	1053.9	936.6	1033.9	2331.6	1864.2	1398.5	1283.0	927.6
82.5°	526.9	552.2	839.1	797.7	655.0	696.5	1117.0	1088.1	909.5	828.2	536.0
85°	378.9	425.8	689.4	601.0	429.5	469.2	741.7	711.0	521.6	425.8	236.4
87.5°	155.1	202.1	487.2	398.8	239.9	218.4	369.9	348.4	247.3	180.5	117.3
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: P269671

CATALOG NUMBER: GLEON-AF-09-LED-E1-T3R-7027-800

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5442.7	5442.7	5442.7	5442.7	5442.7	5442.7	5442.7	5442.7	5442.7	5442.7	5442.7
2.5°	5437.3	5480.5	5536.4	5570.7	5588.7	5601.4	5621.2	5619.4	5624.8	5626.7	5633.9
5°	5473.3	5545.4	5626.7	5648.4	5648.4	5628.5	5608.6	5576.0	5563.6	5559.9	5563.6
7.5°	5567.2	5646.6	5717.0	5691.7	5637.6	5558.2	5455.2	5364.9	5316.3	5300.0	5296.4
10°	5686.2	5781.9	5810.7	5715.0	5556.2	5364.9	5161.1	5013.1	4928.3	4904.8	4897.6
12.5°	5830.5	5920.8	5881.2	5678.9	5384.9	5076.2	4794.8	4558.4	4381.6	4325.6	4321.9
15°	5989.4	6059.7	5920.8	5567.2	5128.7	4673.8	4172.2	3764.3	3544.3	3473.7	3468.4
17.5°	6137.4	6173.4	5897.4	5372.3	4751.4	4015.2	3349.3	3035.4	2959.5	2977.5	2981.1
20°	6263.7	6263.7	5818.0	5092.5	4157.7	3147.2	2726.7	2721.2	2775.5	2829.7	2840.4
22.5°	6402.6	6319.7	5678.9	4697.2	3316.8	2575.1	2513.7	2564.3	2625.7	2685.3	2694.2
25°	6574.1	6364.8	5485.9	4098.2	2607.6	2338.7	2362.3	2403.7	2434.3	2472.2	2477.6
27.5°	6765.3	6422.5	5231.5	3273.6	2262.9	2190.7	2208.8	2223.2	2219.6	2234.1	2237.7
30°	6994.6	6489.3	4883.1	2558.9	2120.4	2064.5	2032.0	2019.3	2019.3	2042.7	2051.8
32.5°	7301.3	6588.4	4383.3	2192.6	2051.8	1974.3	1869.6	1822.7	1840.6	1920.0	1938.2
35°	7638.7	6695.0	3706.5	2068.1	2037.4	1932.8	1770.3	1683.7	1685.5	1759.5	1783.0
37.5°	8007.0	6830.4	2964.9	2044.6	2069.9	1934.5	1718.0	1598.9	1550.1	1550.1	1559.2
40°	8477.9	6969.3	2400.1	2060.8	2138.4	1956.1	1690.9	1532.1	1395.0	1398.5	1405.8
42.5°	9091.4	7088.3	2097.0	2095.0	2221.4	1985.1	1689.2	1443.7	1324.6	1405.8	1479.8
45°	9773.6	7148.0	1963.3	2125.7	2288.3	2003.1	1660.2	1429.3	1333.5	1575.4	1716.1
47.5°	10558.6	7113.7	1889.3	2136.6	2304.4	2003.1	1627.6	1463.5	1396.8	1824.4	1988.7
50°	11419.3	7014.3	1817.2	2115.0	2299.0	1999.4	1658.5	1497.8	1420.2	1867.8	1981.4
52.5°	12431.7	6931.4	1741.5	2068.1	2261.2	1979.7	1694.6	1483.3	1346.2	1698.1	1777.4
55°	13586.7	6954.9	1656.7	2001.2	2201.6	1941.7	1681.8	1425.6	1268.6	1495.9	1544.7
57.5°	15062.8	7234.5	1555.5	1916.4	2120.4	1878.5	1636.7	1398.5	1245.1	1357.0	1385.9
60°	16710.5	7721.8	1429.3	1831.6	2019.3	1777.4	1602.4	1411.1	1256.0	1346.2	1360.7
62.5°	17919.4	8005.1	1321.0	1707.0	1882.2	1665.5	1559.2	1427.4	1284.8	1384.1	1380.4
65°	18247.9	7539.6	1185.7	1524.9	1696.3	1548.3	1505.0	1445.5	1297.5	1414.8	1398.5
66°	17787.7	7037.9	1126.0	1440.1	1602.4	1490.6	1477.9	1443.7	1292.1	1418.5	1391.4
67.5°	16670.7	6009.2	1023.2	1315.6	1452.6	1404.0	1434.7	1427.4	1277.6	1414.8	1376.9
70°	13595.7	4100.0	875.2	1095.4	1209.1	1236.2	1351.6	1369.6	1230.7	1351.6	1268.6
72.5°	9499.2	2497.6	774.2	849.9	978.1	1053.9	1238.0	1290.2	1167.5	1180.3	1100.9
75°	4590.9	1326.3	701.9	658.6	759.7	880.6	1100.9	1182.0	1068.4	987.1	958.2
77.5°	1431.0	810.2	595.4	530.5	595.4	711.0	920.4	1035.8	951.0	826.5	815.8
80°	768.8	595.4	458.3	425.8	471.0	557.6	723.7	864.3	817.5	741.7	662.3
82.5°	507.2	386.2	339.3	330.2	359.1	425.8	537.7	716.4	716.4	635.2	462.0
85°	261.6	236.4	232.8	232.8	250.8	283.3	366.2	552.2	588.3	335.6	277.8
87.5°	130.0	135.4	126.3	131.7	140.8	139.0	175.0	277.8	332.1	203.9	169.6
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)