

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: P383655

Luminaire Tested: **GLEON-SA9B-735-U-T3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383655
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-14)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA9B-735-U-T3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 47601.2 lumens
Efficiency: N/A
Efficacy: 127.3 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B4 - U0 - G5

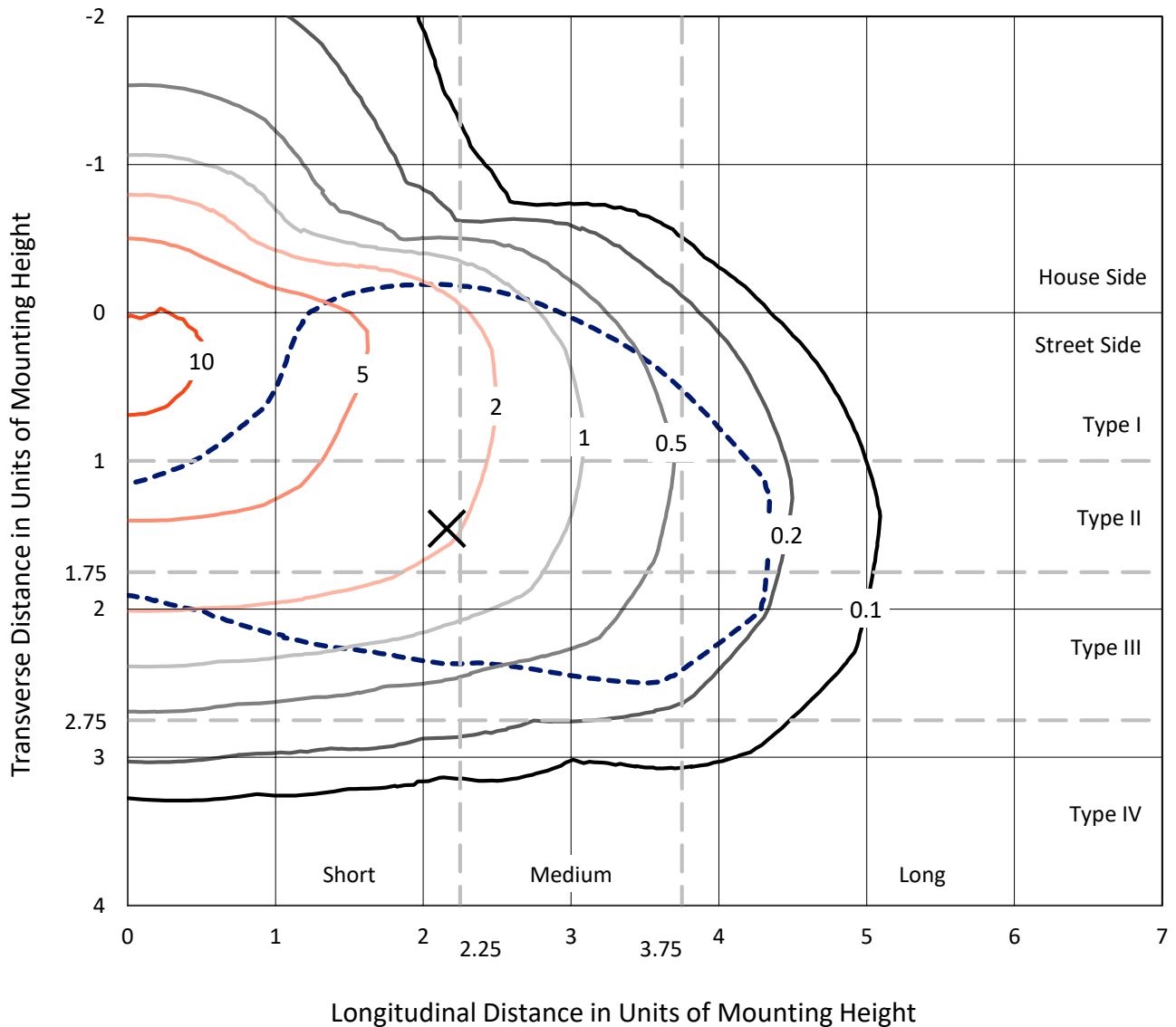
Input Watts (W): 374
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

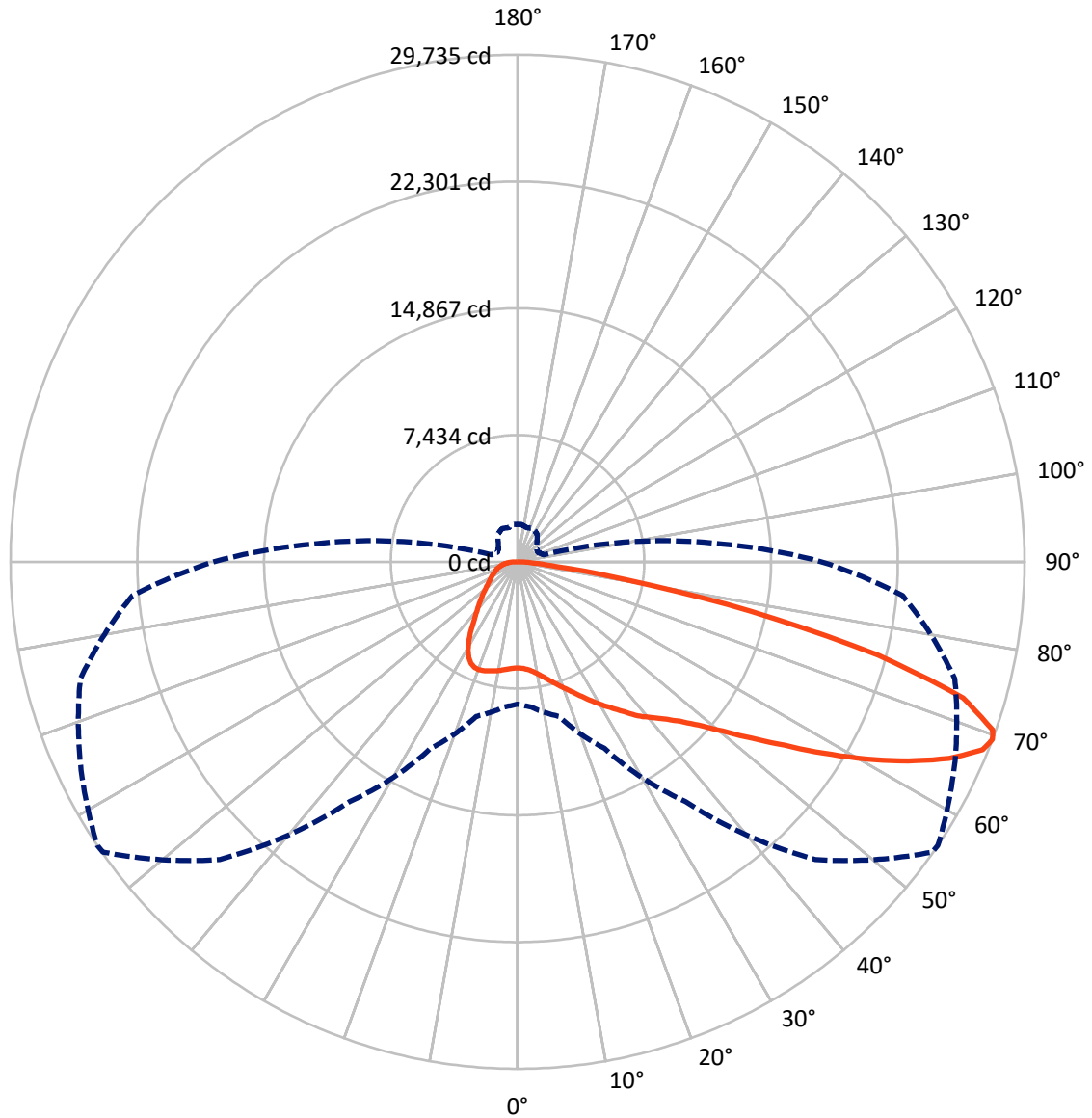
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.8 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10600.7	0.0	10600.7
	% Fixture	22.3	0.0	22.3
Street Side	Lumens	37000.5	0.0	37000.5
	% Fixture	77.7	0.0	77.7
Total	Lumens	47601.2	0.0	47601.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	611.2	1.3
10°-20°	1965.4	4.1
20°-30°	3430.8	7.2
30°-40°	4928.3	10.4
40°-50°	6820.5	14.3
50°-60°	9993.0	21.0
60°-70°	12183.3	25.6
70°-80°	6735.7	14.2
80°-90°	932.9	2.0
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°	47601.2	100.0
0°-180°	47601.2	100.0



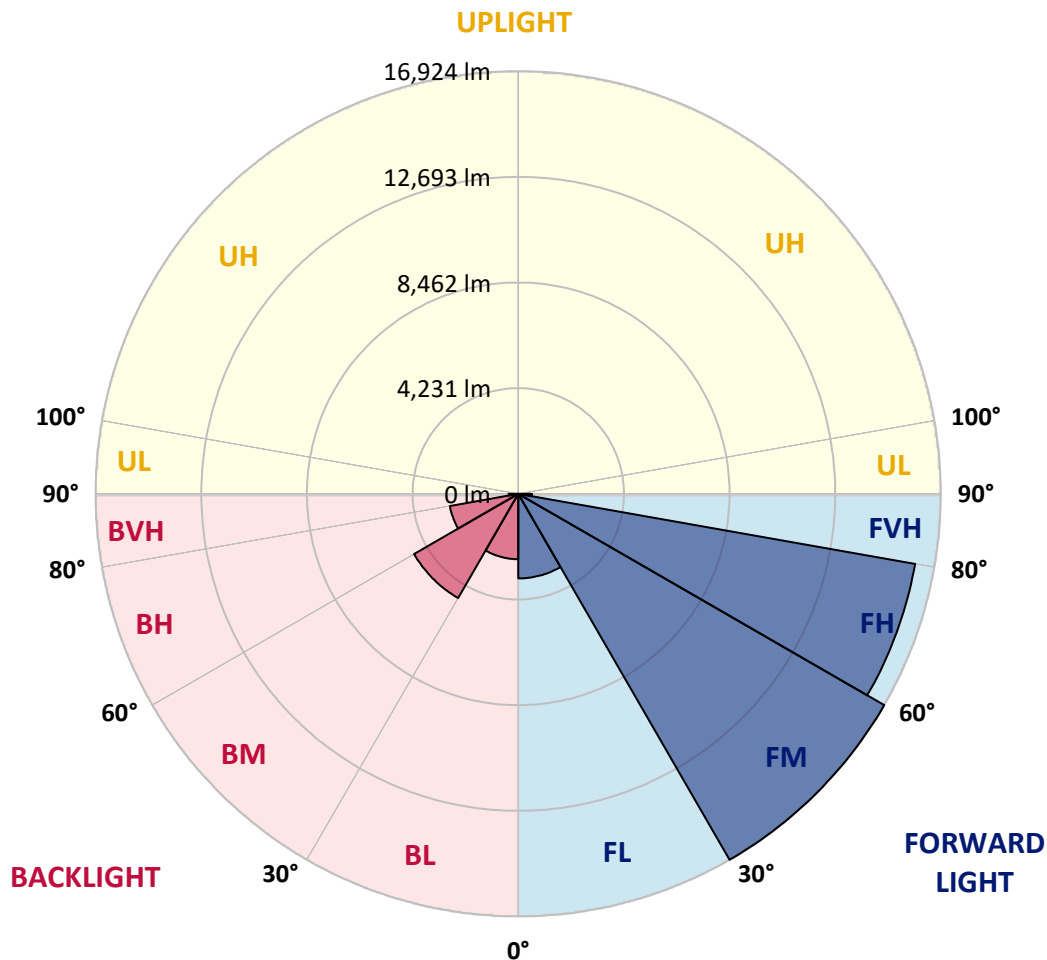
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3387.8	7.1			
FM (30°-60°)	16924.0	35.6			
FH (60°-80°)	16139.2	33.9			G5
FVH (80°-90°)	549.5	1.2			G4/750
BL (0°-30°)	2619.7	5.5	B4/5000		
BM (30°-60°)	4817.8	10.1	B3/5000		
BH (60°-80°)	2779.9	5.8	B4/5000		G4/5000
BVH (80°-90°)	383.4	0.8			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	6223.1	6223.1	6223.1	6223.1	6223.1	6223.1	6223.1	6223.1	6223.1	6223.1	6223.1
2.5°	6262.5	6269.0	6264.1	6277.2	6262.5	6272.3	6264.1	6264.1	6259.3	6244.4	6228.0
5°	6360.9	6374.0	6365.8	6379.0	6360.9	6364.1	6349.4	6349.4	6334.6	6303.5	6270.7
7.5°	6515.1	6529.8	6523.3	6536.3	6511.7	6511.7	6492.0	6490.5	6460.9	6410.1	6372.3
10°	6698.7	6718.3	6711.8	6731.5	6711.8	6718.3	6698.7	6698.7	6659.4	6587.2	6539.7
12.5°	6966.0	6990.6	6972.5	6970.9	6962.7	6975.8	6959.4	6956.1	6920.1	6821.6	6756.0
15°	7323.5	7349.7	7312.0	7308.7	7262.8	7257.9	7257.9	7252.9	7230.0	7111.9	7003.7
17.5°	7735.0	7743.2	7710.4	7658.0	7598.9	7561.2	7556.3	7569.5	7569.5	7431.7	7259.5
20°	8138.5	8153.2	8127.0	8067.9	7992.5	7936.8	7897.4	7923.7	7922.0	7758.0	7513.7
22.5°	8577.9	8612.3	8573.0	8497.6	8409.0	8346.7	8277.8	8300.8	8302.4	8100.7	7763.0
25°	9147.0	9115.8	9091.2	8984.6	8858.4	8794.4	8730.5	8753.4	8746.9	8469.7	8020.3
27.5°	9650.4	9656.9	9624.1	9511.0	9365.0	9224.0	9220.7	9235.5	9210.9	8853.4	8263.1
30°	10235.8	10239.1	10193.2	10091.5	9932.4	9750.4	9707.8	9732.3	9679.9	9217.5	8518.9
32.5°	10817.9	10834.4	10783.5	10660.5	10532.6	10311.2	10226.0	10242.4	10111.2	9589.7	8782.9
35°	11327.9	11350.9	11334.5	11252.4	11113.1	10922.9	10821.2	10811.4	10649.0	10045.5	9132.1
37.5°	11847.7	11869.0	11851.1	11782.1	11726.4	11524.6	11470.6	11470.6	11188.5	10511.3	9576.6
40°	12382.3	12415.1	12393.8	12298.7	12251.2	12159.3	12029.7	11998.6	11693.6	11070.4	10301.3
42.5°	12879.2	12921.8	13007.1	12951.3	12854.6	12867.7	12607.0	12590.6	12367.6	11896.9	11211.5
45°	13584.3	13646.6	13790.9	13748.2	13728.6	13656.5	13346.6	13331.8	13246.5	13008.7	12341.3
47.5°	14353.4	14438.6	14699.4	14707.6	14919.1	14783.0	14361.6	14310.7	14330.5	14340.2	13720.4
50°	15061.8	15155.3	15583.2	15785.0	16283.5	16313.0	15639.0	15593.1	15670.1	15896.5	15327.4
52.5°	15627.5	15745.6	16280.2	16903.3	17757.6	18000.4	17211.6	17177.2	17234.6	17624.8	17144.4
55°	16042.4	16170.3	16752.5	17887.2	19251.5	19679.5	19021.9	18989.1	19025.3	19522.1	19120.4
57.5°	16139.2	16170.3	17014.8	18549.7	20512.6	21540.7	21237.3	21171.7	20994.7	21427.6	21301.3
60°	15684.9	15809.6	16798.3	18782.5	21488.3	23375.7	23552.8	23470.8	22973.9	23328.2	23226.5
62.5°	14763.4	14986.4	15989.9	18428.3	21870.3	24874.5	25824.0	25725.5	24869.6	25099.2	24610.5
65°	13258.0	13353.1	14407.5	17206.7	21385.0	25833.8	27849.2	27800.0	26722.6	26363.4	24866.3
67.5°	10565.4	10744.1	11639.5	14653.4	19399.1	25720.7	29415.2	29410.3	27932.7	26832.5	23959.5
69°	8346.7	8532.0	9384.7	12070.7	17165.7	24685.9	29677.5	29734.9	28273.9	26547.2	22664.0
70°	6654.4	6869.2	7454.6	10166.9	15183.1	23321.6	29459.4	29562.8	28208.3	26076.5	21468.5
72.5°	2832.0	3005.8	3422.3	5240.9	9253.5	17414.9	26935.8	27326.0	26688.2	23866.0	17742.9
75°	1236.4	1290.6	1479.1	2136.7	4107.8	9478.2	21101.2	21822.8	22819.8	20173.1	13217.0
77.5°	905.2	928.1	1031.4	1254.4	1843.2	3579.8	13569.6	13989.3	16457.3	14679.7	8107.3
80°	700.2	716.6	796.9	921.6	1203.7	1448.0	6188.7	6549.4	9253.5	7539.9	3376.4
82.5°	557.5	569.0	624.8	678.9	831.4	877.3	2054.7	2279.3	3415.8	2082.6	893.7
85°	518.2	531.3	551.0	495.2	532.9	514.9	888.8	929.8	1031.4	818.3	373.9
87.5°	234.5	277.1	546.1	385.4	283.7	226.3	364.0	380.4	428.0	429.6	165.6
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°	6223.1	6223.1	6223.1	6223.1	6223.1	6223.1	6223.1	6223.1	6223.1	6223.1	6223.1
2.5°	6237.9	6233.0	6241.2	6221.5	6246.1	6244.4	6236.2	6239.5	6255.9	6254.3	6255.9
5°	6275.6	6272.3	6282.2	6267.5	6296.9	6306.8	6308.4	6323.2	6341.2	6346.1	6346.1
7.5°	6370.8	6370.8	6375.6	6355.9	6375.6	6374.0	6365.8	6380.5	6398.6	6400.2	6398.6
10°	6534.7	6536.3	6528.1	6477.3	6460.9	6416.6	6375.6	6377.3	6400.2	6418.3	6423.2
12.5°	6741.3	6734.7	6698.7	6605.2	6536.3	6446.1	6403.6	6401.9	6424.8	6439.6	6444.5
15°	6977.5	6959.4	6866.0	6713.5	6592.1	6503.5	6434.7	6418.3	6405.1	6388.7	6390.4
17.5°	7200.5	7159.5	7003.7	6792.2	6664.3	6546.2	6413.3	6306.8	6233.0	6190.3	6177.2
20°	7426.8	7346.4	7121.8	6866.0	6703.6	6488.8	6233.0	6016.5	5882.1	5819.8	5808.3
22.5°	7633.4	7503.8	7231.6	6943.0	6672.5	6295.3	5893.5	5578.7	5391.7	5308.1	5314.7
25°	7835.1	7654.7	7346.4	6997.1	6515.1	5954.2	5421.2	5034.3	4817.8	4724.3	4721.1
27.5°	8012.1	7807.2	7471.0	6952.9	6221.5	5468.8	4862.1	4484.9	4304.5	4224.2	4211.1
30°	8215.5	7999.1	7636.6	6784.0	5791.9	4908.0	4316.0	4050.4	3922.5	3842.1	3827.4
32.5°	8463.1	8259.8	7772.7	6477.3	5242.6	4322.6	3889.7	3704.4	3587.9	3497.8	3481.4
35°	8823.9	8604.1	7807.2	6037.8	4639.1	3860.1	3576.5	3386.3	3228.8	3112.4	3100.9
37.5°	9276.4	9035.5	7728.5	5468.8	4053.6	3560.1	3315.8	3081.2	2876.2	2712.3	2686.0
40°	9929.2	9565.1	7510.4	4812.8	3622.4	3328.9	3061.5	2794.3	2540.1	2348.2	2310.5
42.5°	10713.0	10186.6	7175.9	4160.2	3305.9	3094.3	2809.0	2477.7	2235.1	2099.0	2079.3
45°	11710.0	10832.7	6711.8	3589.5	2994.3	2859.9	2536.8	2231.8	2080.9	1980.9	1964.5
47.5°	12848.0	11557.5	6224.8	3125.5	2730.3	2640.1	2318.7	2122.0	2002.3	1923.6	1908.7
50°	14246.8	12375.8	5708.2	2745.1	2464.7	2376.1	2215.4	2061.2	1966.1	1905.5	1890.8
52.5°	15824.3	13299.0	5336.0	2444.9	2244.9	2180.9	2161.3	2028.4	1951.4	1905.5	1890.8
55°	17523.2	14238.6	4934.2	2192.5	2054.7	2072.7	2125.2	2031.7	1979.3	1923.6	1902.2
57.5°	19223.7	15209.4	4486.5	1979.3	1903.8	1992.4	2100.6	2038.3	1994.1	1939.9	1920.2
60°	20568.3	15824.3	3792.9	1800.5	1784.1	1903.8	2041.6	1989.1	1931.8	1933.3	1930.1
62.5°	21196.3	15791.5	3027.2	1641.5	1664.4	1784.1	1946.5	1912.0	1864.5	1928.4	1933.3
65°	20843.8	15004.4	2356.4	1497.2	1536.5	1659.5	1848.1	1874.3	1890.8	2013.7	2030.1
67.5°	19364.7	13472.8	1825.1	1370.9	1420.1	1574.2	1857.9	2041.6	2062.9	2192.5	2190.8
69°	17834.8	12036.3	1585.7	1305.3	1362.7	1595.6	1985.9	2148.1	2067.8	2205.5	2185.9
70°	16552.4	10899.9	1457.8	1261.0	1336.5	1633.3	2071.1	2146.6	2043.3	2161.3	2128.5
72.5°	12747.9	7841.7	1236.4	1179.1	1247.9	1562.8	2095.7	2099.0	1985.9	2008.8	1953.0
75°	8743.5	4955.6	1079.0	1067.6	1113.5	1408.6	2017.0	2005.5	1836.6	1803.8	1757.9
77.5°	4821.0	2517.1	916.6	960.9	992.1	1247.9	1833.3	1816.9	1677.5	1608.7	1592.3
80°	1859.6	1101.9	774.0	854.3	874.1	1080.7	1607.0	1592.3	1475.9	1387.3	1362.7
82.5°	701.8	577.2	639.5	739.6	733.0	892.0	1361.1	1352.9	1239.7	1110.1	1070.8
85°	324.6	346.0	506.7	610.0	562.5	660.8	1088.9	1103.6	965.8	811.8	811.8
87.5°	137.8	193.5	359.1	460.8	378.8	446.0	798.6	762.6	700.2	485.4	455.9
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)