

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: P383405

Luminaire Tested: **GLEON-SA7A-735-U-T3R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383405
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-10)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA7A-735-U-T3R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31395.9 lumens
Efficiency: N/A
Efficacy: 138.9 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G4

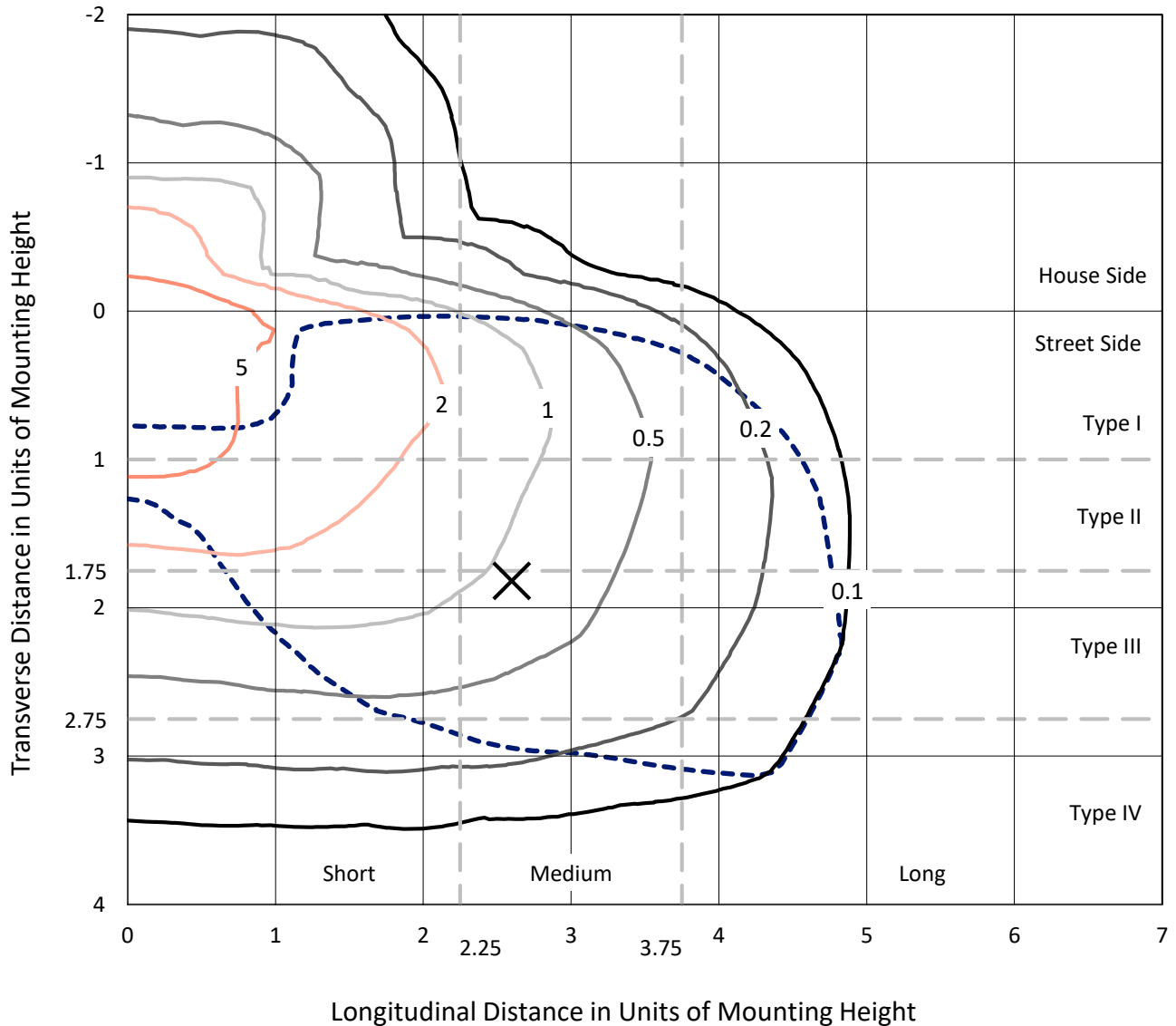
Input Watts (W): 226
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

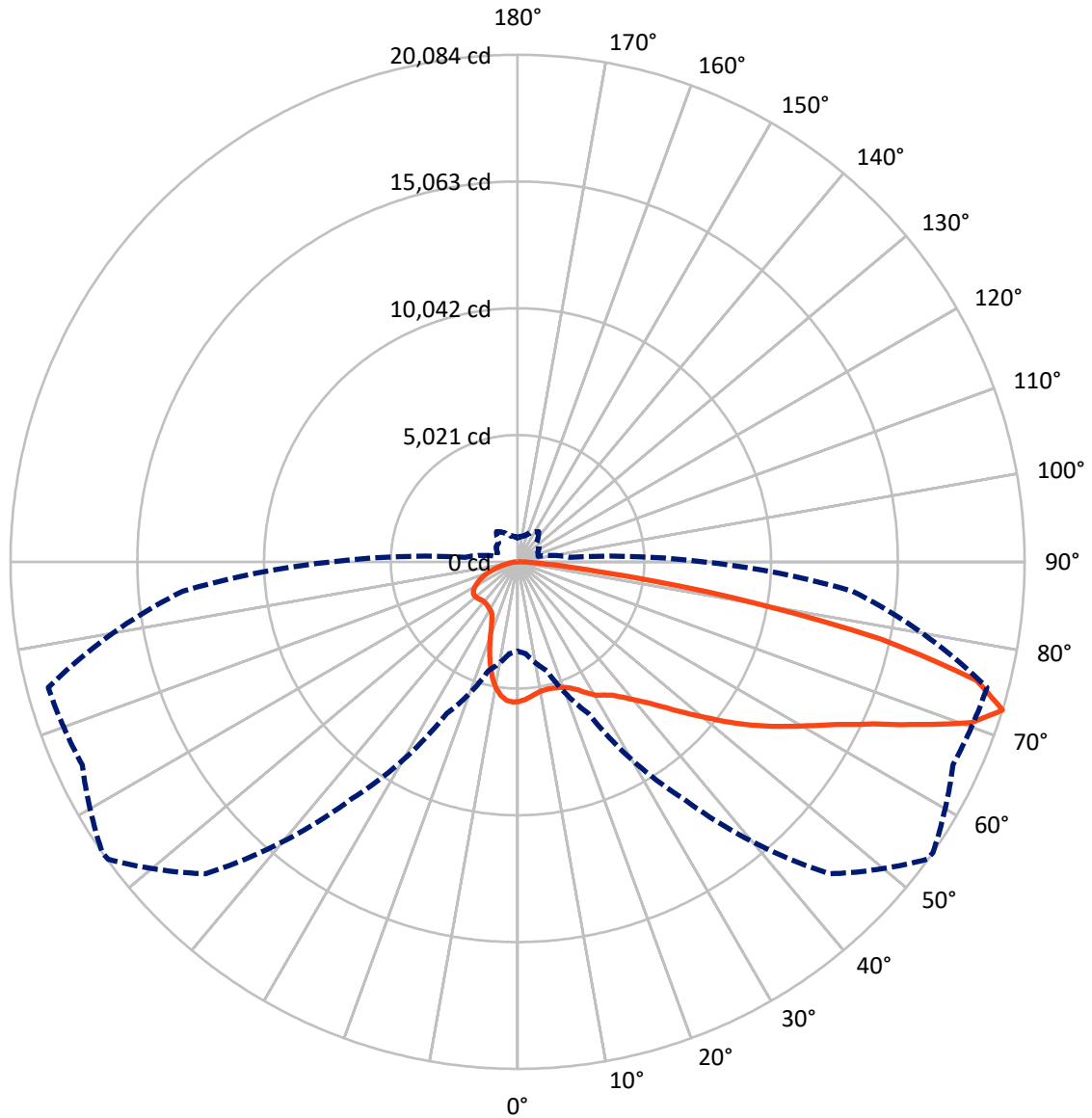
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.9 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5835.5	0.0	5835.5
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	25560.5	0.0	25560.5
	% Fixture	81.4	0.0	81.4
Total	Lumens	31395.9	0.0	31395.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	501.1	1.6
10°-20°	1334.1	4.2
20°-30°	2199.6	7.0
30°-40°	3253.7	10.4
40°-50°	4541.5	14.5
50°-60°	5913.1	18.8
60°-70°	7267.1	23.1
70°-80°	5696.5	18.1
80°-90°	689.4	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°	31395.9	100.0
0°-180°	31395.9	100.0

Coefficient of Utilization

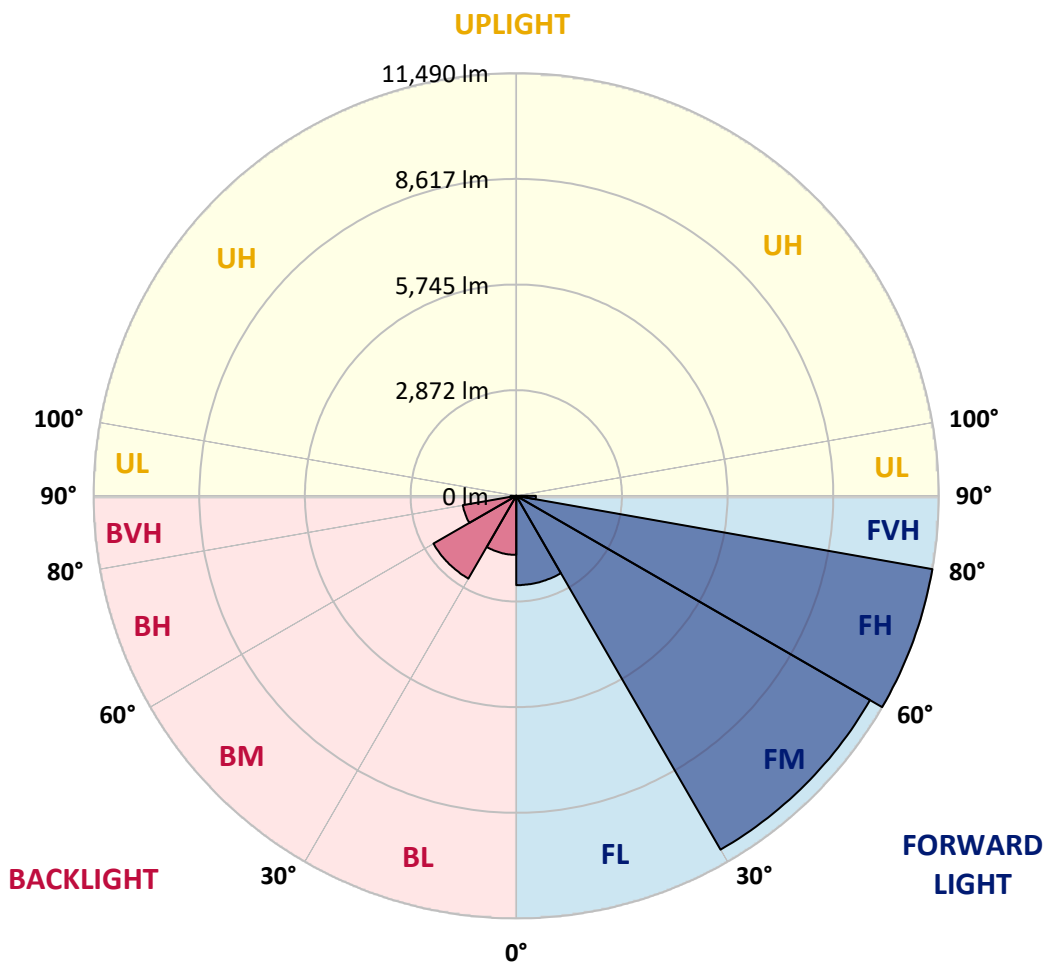


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2429.1	7.7			
FM (30°-60°)	11108.5	35.4			
FH (60°-80°)	11489.9	36.6			G4/12000
FVH (80°-90°)	533.0	1.7			G4/750
BL (0°-30°)	1605.6	5.1	B3/2500		
BM (30°-60°)	2599.8	8.3	B3/5000		
BH (60°-80°)	1473.7	4.7	B3/2500		G3/2500
BVH (80°-90°)	156.4	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-G4
 Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	5537.6	5537.6	5537.6	5537.6	5537.6	5537.6	5537.6	5537.6	5537.6	5537.6	5537.6
2.5°	5357.3	5344.6	5360.5	5382.8	5407.2	5440.1	5459.1	5467.6	5500.4	5513.2	5540.8
5°	5109.2	5102.8	5129.3	5167.5	5221.6	5297.9	5359.4	5371.1	5458.0	5519.5	5575.8
7.5°	4928.9	4928.9	4959.7	5005.2	5065.7	5168.5	5255.5	5271.4	5418.8	5551.4	5655.2
10°	4785.7	4791.0	4827.1	4881.1	4952.2	5061.5	5177.0	5195.1	5408.2	5625.6	5791.1
12.5°	4690.2	4703.0	4735.9	4784.7	4872.6	5005.2	5151.6	5176.0	5430.5	5731.6	5954.4
15°	4750.7	4771.9	4775.1	4795.2	4844.0	4988.3	5166.5	5191.9	5478.2	5839.8	6139.9
17.5°	5015.8	5023.3	4990.4	4948.0	4924.6	5016.9	5211.0	5237.4	5535.4	5946.9	6318.0
20°	5418.8	5414.5	5343.5	5229.0	5110.2	5125.1	5284.1	5311.7	5612.9	6041.3	6496.2
22.5°	5927.8	5913.0	5803.7	5592.7	5390.2	5305.3	5412.5	5435.8	5729.5	6176.0	6687.1
25°	6545.0	6512.1	6367.9	6084.8	5786.8	5568.3	5605.4	5627.7	5899.2	6326.5	6862.1
27.5°	7196.1	7163.2	6979.7	6637.3	6240.6	5900.2	5871.6	5890.7	6092.1	6437.8	6991.5
30°	7876.9	7841.9	7674.4	7290.5	6722.0	6243.8	6119.7	6127.2	6228.0	6498.3	7097.5
32.5°	8560.8	8527.9	8340.3	7894.9	7244.8	6612.9	6298.9	6289.4	6309.6	6560.9	7217.3
35°	9254.4	9267.1	9047.6	8554.5	7823.9	7023.2	6511.1	6490.9	6446.4	6689.2	7387.0
37.5°	9996.7	9988.2	9704.0	9188.6	8429.4	7468.6	6815.4	6812.2	6658.4	6932.0	7653.1
40°	10493.0	10498.3	10325.5	9837.6	9041.2	7961.8	7205.6	7198.2	6996.8	7295.8	8002.0
42.5°	10687.0	10722.0	10766.5	10456.9	9681.8	8533.3	7671.2	7660.6	7468.6	7817.5	8412.4
45°	10700.8	10770.8	11046.5	11007.3	10330.7	9187.6	8266.1	8236.4	8098.5	8511.0	8902.3
47.5°	10582.0	10654.1	11112.2	11335.0	10910.8	9877.9	8961.7	8938.4	8819.6	9378.4	9432.6
50°	10322.2	10391.1	10976.5	11495.1	11388.0	10541.8	9763.4	9701.9	9638.3	10380.5	10039.1
52.5°	9835.5	9968.0	10795.1	11533.2	11673.2	11131.3	10606.4	10566.2	10601.1	11437.8	10646.8
55°	8682.8	8831.3	10327.5	11501.4	11884.2	11626.6	11449.5	11447.3	11628.7	12547.0	11298.9
57.5°	8037.0	8142.0	9375.3	11447.3	12134.5	12118.6	12284.0	12304.2	12657.3	13754.9	11981.8
60°	7672.2	7782.5	8892.7	11246.9	12522.6	12754.8	13135.6	13175.8	13702.9	15092.1	12803.7
62.5°	7340.3	7461.2	8593.7	10838.6	12979.7	13664.7	14155.7	14191.8	14810.0	16466.4	13597.9
65°	6773.0	6909.8	8155.8	10570.4	13395.4	14851.3	15452.6	15477.0	16081.4	17906.4	14205.5
67.5°	5971.3	6096.4	7329.7	9977.6	13702.9	16292.5	17176.9	17190.7	17342.2	18923.4	14516.2
70°	5034.9	5082.6	6152.6	8753.8	13339.2	17640.3	19066.5	19069.7	18491.8	19574.5	14465.4
72.5°	3537.6	3650.0	4466.5	6626.7	11463.3	17475.9	20047.5	20083.5	19026.2	19245.8	13309.5
75°	2169.7	2288.4	2801.6	4015.8	7272.4	13744.2	18522.5	18772.8	18024.1	17159.9	10872.6
77.5°	1450.7	1495.2	1828.2	2341.4	3294.8	7907.6	14240.6	14711.4	14973.3	12514.1	6953.3
80°	809.1	893.9	1212.0	1454.9	1465.5	3142.0	8538.6	8648.9	8330.7	4982.9	2145.3
82.5°	428.4	475.1	809.1	854.7	799.5	1051.9	3182.4	3185.5	2661.7	1336.1	637.4
85°	331.9	371.1	554.6	521.8	408.3	466.6	1049.9	1107.1	905.7	547.2	207.8
87.5°	165.4	205.7	376.4	330.9	160.1	133.6	375.4	400.8	357.3	214.2	75.3
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°	5537.6	5537.6	5537.6	5537.6	5537.6	5537.6	5537.6	5537.6	5537.6	5537.6	5537.6
2.5°	5551.4	5560.9	5572.5	5559.8	5555.6	5538.6	5510.0	5503.7	5488.8	5489.9	5498.4
5°	5600.1	5616.0	5609.7	5560.9	5502.6	5421.0	5336.1	5264.0	5216.3	5213.0	5209.9
7.5°	5693.4	5704.1	5654.2	5515.3	5352.0	5163.2	4985.1	4829.2	4734.9	4711.5	4706.2
10°	5839.8	5837.6	5700.9	5421.0	5095.4	4758.2	4471.8	4255.5	4129.4	4092.2	4082.7
12.5°	6003.1	5978.7	5716.8	5249.2	4732.7	4265.1	3902.3	3661.6	3530.2	3487.7	3477.2
15°	6171.7	6111.2	5677.5	4992.5	4287.4	3733.7	3353.1	3130.4	3059.4	3036.0	3031.8
17.5°	6328.7	6212.0	5565.2	4644.7	3779.4	3204.6	2907.7	2818.6	2835.6	2866.4	2867.4
20°	6482.5	6279.8	5384.9	4205.7	3243.8	2768.7	2668.0	2733.8	2814.4	2877.0	2885.5
22.5°	6634.0	6327.6	5152.7	3698.8	2764.6	2523.8	2594.9	2714.7	2806.9	2874.8	2886.5
25°	6761.3	6339.3	4832.4	3157.9	2431.5	2431.5	2559.9	2673.4	2764.6	2831.3	2843.0
27.5°	6807.9	6260.7	4380.6	2657.4	2264.0	2389.1	2511.1	2605.4	2682.9	2753.9	2766.7
30°	6826.0	6115.5	3858.9	2255.6	2195.1	2343.6	2445.3	2526.0	2599.1	2665.9	2677.5
32.5°	6829.2	5940.6	3305.3	2027.5	2147.4	2295.8	2363.7	2434.8	2513.2	2539.8	2544.0
35°	6849.3	5733.8	2722.2	1910.9	2102.9	2251.3	2305.4	2356.3	2229.0	2238.6	2247.1
37.5°	6907.6	5529.1	2234.3	1845.1	2074.2	2228.0	2292.6	2108.1	2008.4	1985.1	1982.0
40°	7016.9	5310.7	1872.7	1792.1	2063.6	2239.6	2211.0	1968.2	1796.4	1668.0	1648.9
42.5°	7168.5	5075.3	1641.6	1757.2	2071.0	2295.8	2097.6	1833.5	1548.2	1465.5	1454.9
45°	7339.2	4828.1	1516.4	1732.8	2096.4	2339.3	2074.2	1654.2	1432.6	1370.1	1364.8
47.5°	7504.6	4525.9	1451.7	1722.2	2131.5	2304.3	1975.6	1599.1	1377.5	1344.6	1347.8
50°	7694.5	4253.4	1412.5	1710.5	2162.2	2282.0	1864.2	1570.5	1356.3	1396.6	1439.0
52.5°	7854.6	3971.3	1377.5	1687.1	2173.9	2242.8	1835.6	1575.8	1356.3	1433.7	1474.0
55°	8044.5	3758.1	1337.2	1638.4	2151.6	2131.5	1815.5	1607.6	1372.2	1323.4	1327.6
57.5°	8289.4	3688.2	1292.7	1562.0	2077.4	1969.2	1805.9	1638.4	1362.7	1331.9	1342.5
60°	8628.7	3762.4	1274.6	1462.3	1961.8	1841.9	1807.0	1622.5	1295.9	1242.9	1243.9
62.5°	8952.2	3845.1	1273.6	1399.7	1819.7	1728.5	1782.6	1570.5	1261.9	1231.1	1242.9
65°	9058.2	3761.3	1222.7	1329.8	1659.6	1592.8	1738.1	1515.3	1236.4	1189.8	1187.7
67.5°	8916.1	3501.5	1119.8	1216.3	1476.1	1434.8	1679.8	1449.6	1196.2	1158.0	1151.7
70°	8494.0	2921.5	992.6	1066.8	1267.2	1256.6	1587.5	1373.3	1142.1	1109.2	1081.6
72.5°	7358.3	2081.6	836.7	887.6	1031.8	1065.7	1460.2	1273.6	1065.7	994.7	952.2
75°	6043.4	1540.8	687.2	697.7	783.6	875.9	1285.3	1156.9	975.6	854.7	821.8
77.5°	3700.9	942.7	547.2	551.4	562.0	698.8	1058.3	1026.5	861.0	712.6	689.3
80°	1198.2	514.3	395.5	415.7	383.9	512.2	818.6	873.8	739.1	596.0	570.5
82.5°	456.0	300.1	267.3	281.0	266.1	343.6	597.0	699.9	605.5	489.9	398.7
85°	220.6	169.6	158.0	177.1	164.3	176.1	381.7	515.3	459.2	319.1	296.9
87.5°	78.4	75.3	60.5	81.7	70.0	62.6	116.6	259.8	303.3	219.5	196.2
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)