

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: P383493

Luminaire Tested: **GLEON-SA7D-735-U-T4W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383493
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-18)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA7D-735-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 50768.4 lumens
Efficiency: N/A
Efficacy: 113.3 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B4 - U0 - G5

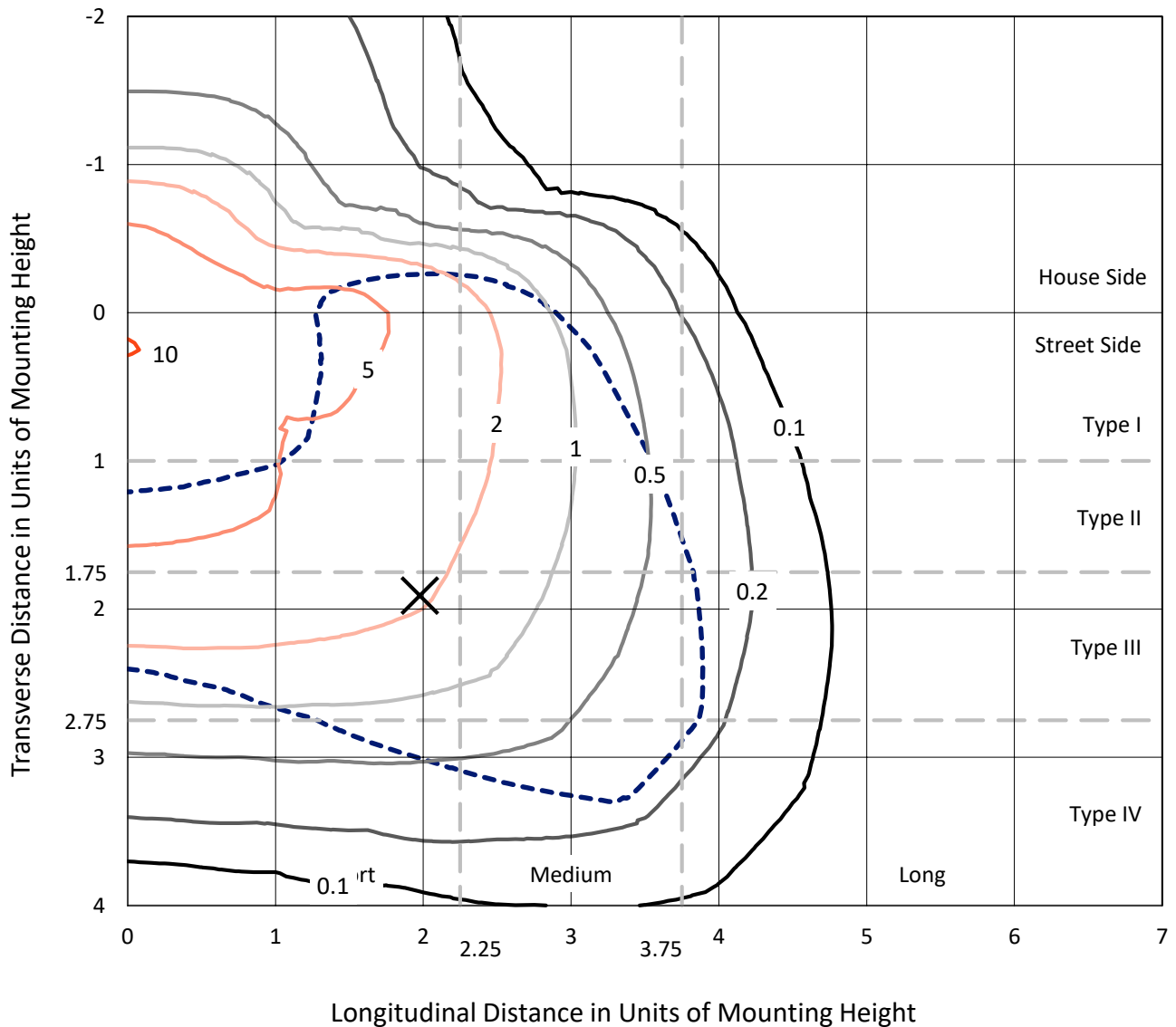
Input Watts (W): 448
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

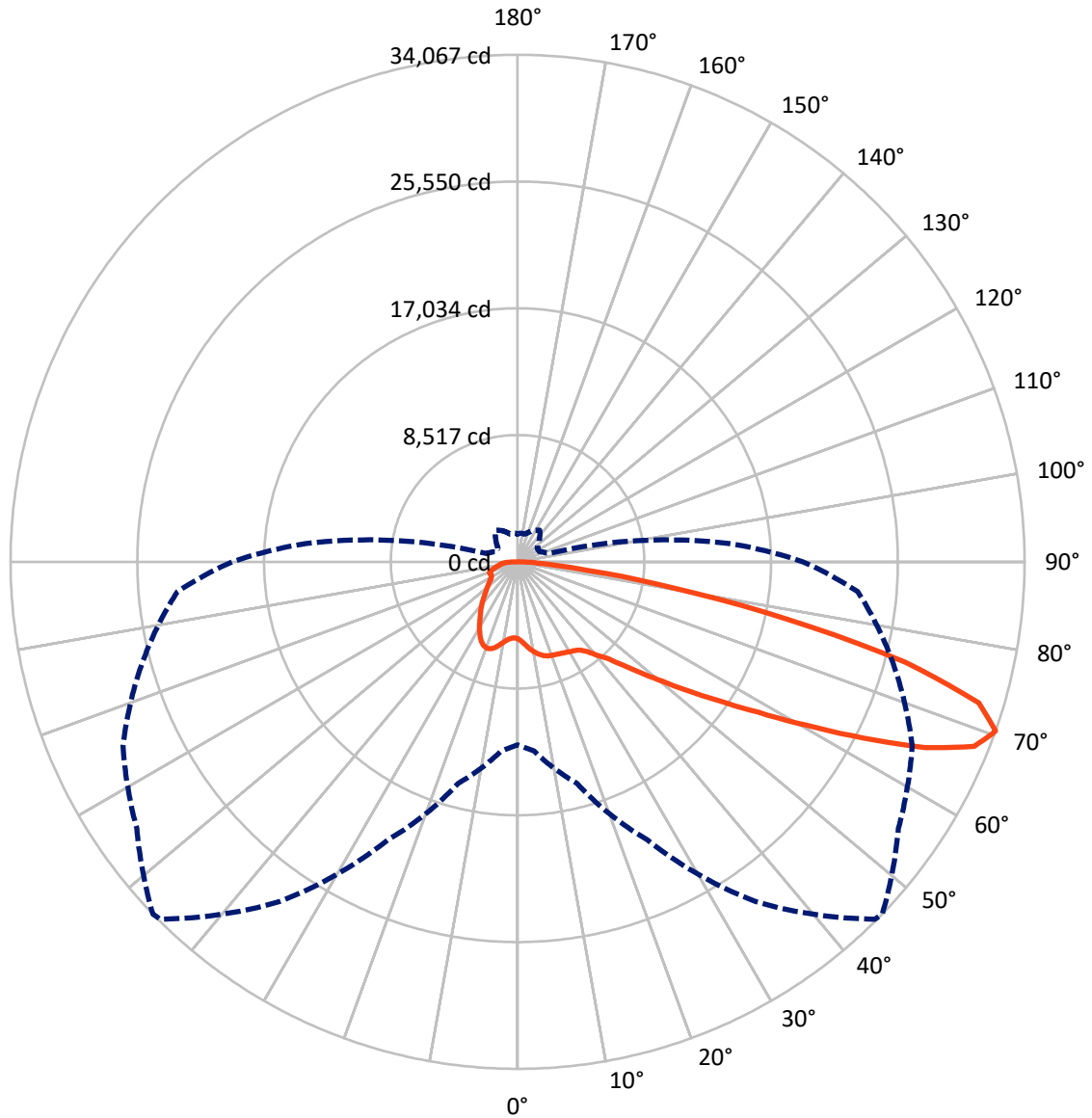
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.3 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 46-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11636.0	0.0	11636.0
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	39132.4	0.0	39132.4
	% Fixture	77.1	0.0	77.1
Total	Lumens	50768.4	0.0	50768.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	527.3	1.0
10°-20°	1756.7	3.5
20°-30°	2929.1	5.8
30°-40°	4156.6	8.2
40°-50°	6114.2	12.0
50°-60°	10354.4	20.4
60°-70°	14697.9	29.0
70°-80°	8929.1	17.6
80°-90°	1303.1	2.6
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°	50768.4	100.0
0°-180°	50768.4	100.0

Coefficient of Utilization



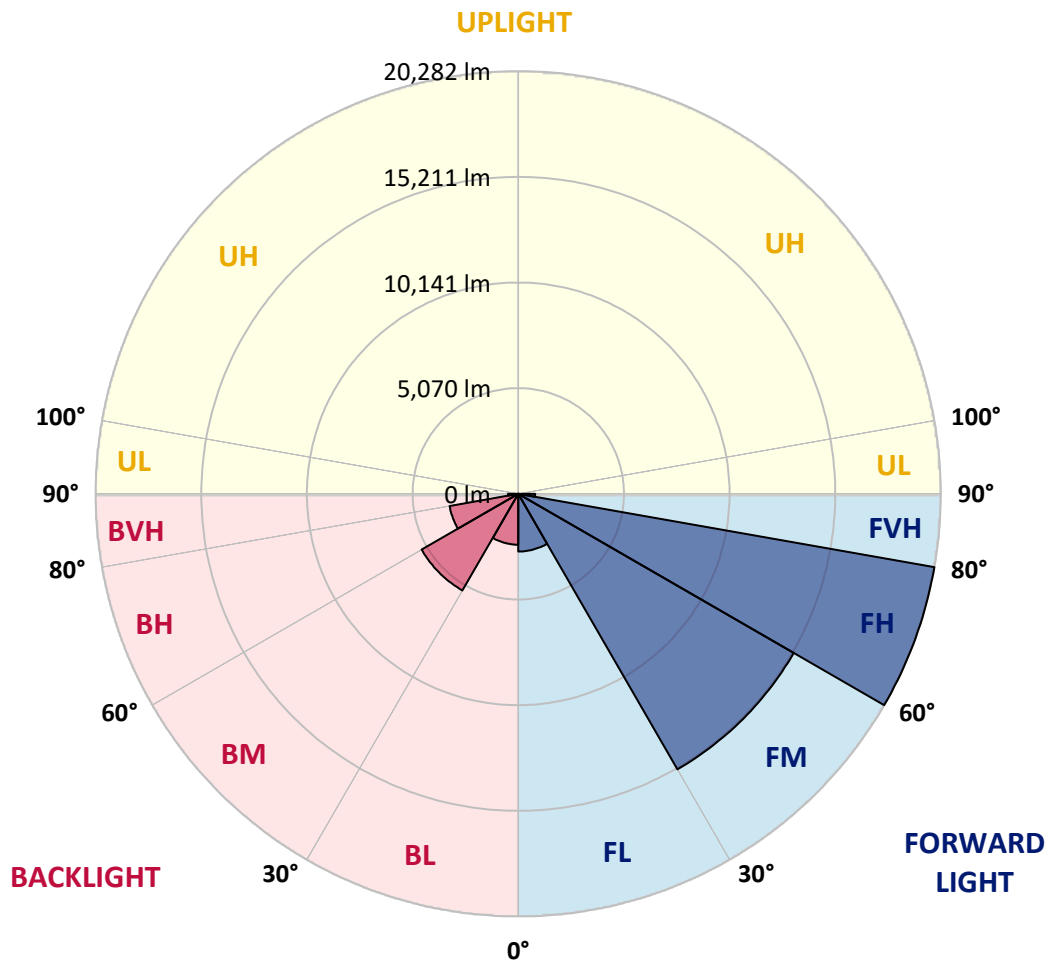
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2770.2	5.5			
FM (30°-60°)	15268.9	30.1			
FH (60°-80°)	20281.7	39.9			G5
FVH (80°-90°)	811.7	1.6			G5
BL (0°-30°)	2443.0	4.8	B3/2500		
BM (30°-60°)	5356.4	10.6	B4/8500		
BH (60°-80°)	3345.2	6.6	B4/5000		G4/5000
BVH (80°-90°)	491.4	1.0			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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	5172.3	5172.3	5172.3	5172.3	5172.3	5172.3	5172.3	5172.3	5172.3	5172.3	5172.3
2.5°	5431.2	5434.6	5441.6	5424.2	5375.6	5361.7	5356.5	5306.1	5273.1	5224.4	5182.8
5°	5865.6	5869.0	5858.6	5810.0	5702.2	5622.3	5615.4	5500.7	5396.5	5285.2	5201.9
7.5°	6319.0	6324.2	6291.2	6199.2	6048.0	5909.0	5900.3	5743.9	5585.8	5417.3	5292.2
10°	6720.4	6699.5	6645.7	6517.1	6338.2	6167.9	6160.9	5997.6	5815.2	5611.8	5445.1
12.5°	6987.9	6970.6	6901.0	6744.7	6548.3	6392.0	6378.1	6226.9	6049.7	5827.3	5627.5
15°	7135.6	7147.8	7054.0	6876.7	6685.6	6553.5	6541.4	6433.6	6275.6	6051.4	5822.1
17.5°	7154.8	7165.1	7074.8	6899.3	6742.9	6652.6	6647.3	6576.2	6461.5	6246.0	6006.2
20°	7043.5	7050.4	6975.7	6831.5	6729.0	6701.3	6699.5	6668.2	6583.1	6392.0	6159.2
22.5°	6881.9	6887.1	6833.3	6729.0	6694.3	6737.7	6749.9	6737.7	6677.0	6497.9	6279.0
25°	6841.9	6838.5	6782.9	6677.0	6706.5	6798.5	6814.2	6819.4	6777.7	6621.3	6432.0
27.5°	7034.9	7022.7	6916.6	6746.5	6765.6	6876.7	6897.6	6947.9	6921.9	6784.6	6605.7
30°	7592.6	7571.7	7354.5	7010.5	6916.6	6974.0	7000.1	7080.0	7085.2	6970.6	6836.7
32.5°	8534.2	8508.2	8119.0	7503.9	7172.1	7073.1	7097.4	7217.3	7281.5	7192.9	7048.7
35°	9724.3	9694.8	9184.0	8343.1	7599.5	7262.4	7279.8	7375.3	7503.9	7378.8	7187.7
37.5°	10964.9	10893.6	10401.9	9329.9	8278.8	7667.3	7667.3	7679.4	7740.2	7479.6	7351.0
40°	12198.4	12127.2	11682.4	10490.5	9158.0	8304.8	8264.9	7995.7	7946.9	7722.8	7679.4
42.5°	13345.2	13324.3	13062.0	11802.3	10190.0	8932.1	8876.5	8419.5	8429.9	8291.0	8292.7
45°	14564.8	14564.8	14351.1	13126.3	11392.3	9939.8	9884.2	9211.8	9316.0	9251.8	9406.4
47.5°	15560.4	15591.6	15562.1	14505.8	12790.9	11220.3	11119.5	10309.9	10601.8	10822.4	11272.4
50°	16576.8	16625.4	16630.6	16019.1	14481.4	12742.3	12627.6	11767.6	12419.1	13051.5	13935.9
52.5°	18051.8	18161.3	17725.2	17528.8	16552.4	14549.2	14436.3	13642.2	14729.9	15617.7	17141.4
55°	19419.1	19323.7	19012.6	19134.3	18769.4	16606.3	16521.2	15824.5	17304.7	18458.3	20437.3
57.5°	20159.3	20152.4	20465.1	20986.4	21160.1	19142.9	19071.7	18394.1	20208.0	21075.0	23531.6
60°	21028.0	21040.2	21815.1	22998.2	23714.1	22301.5	22270.3	21756.0	23027.8	23517.8	25958.9
62.5°	21149.7	21368.6	22702.9	24739.2	26104.8	25991.9	26061.3	24784.3	25550.6	25467.1	27770.9
65°	19751.0	20039.5	22454.5	25265.6	28481.6	30027.9	30092.2	27830.1	27539.9	27133.4	28419.0
67.5°	16884.3	17311.7	19935.2	24120.7	29265.1	33011.1	33101.3	30191.2	29190.4	27698.0	26858.8
70°	12287.0	12761.4	15402.2	20600.6	27868.3	33964.9	34067.3	31235.3	29253.0	26090.9	22928.7
72.5°	7422.3	7794.1	9971.1	15166.0	23521.2	32227.4	32409.8	29911.4	26707.7	22100.0	16931.2
75°	3259.4	3502.6	4821.3	8739.2	16839.1	26664.2	26891.8	25602.7	21700.4	16060.7	10007.5
77.5°	1388.2	1457.7	1977.2	3796.2	9519.3	18220.3	18533.0	18706.9	14722.9	8739.2	4228.9
80°	865.2	893.1	1118.9	1718.3	4454.8	10233.4	10570.5	11006.6	7311.1	3212.5	1476.8
82.5°	526.4	557.7	743.7	1039.0	2319.5	4638.9	4800.5	5108.0	2837.2	1388.2	764.4
85°	316.2	338.8	455.2	656.7	1320.5	1824.2	1822.6	2015.4	1336.1	893.1	403.1
87.5°	151.2	168.5	243.2	340.6	665.4	684.5	641.1	726.2	811.4	585.5	203.3
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°	5172.3	5172.3	5172.3	5172.3	5172.3	5172.3	5172.3	5172.3	5172.3	5172.3	5172.3
2.5°	5168.9	5161.9	5139.3	5121.9	5118.5	5108.0	5099.3	5104.5	5111.5	5113.3	5113.3
5°	5167.1	5148.0	5118.5	5106.3	5121.9	5142.8	5168.9	5203.6	5224.4	5240.0	5250.5
7.5°	5250.5	5214.0	5181.0	5174.0	5205.3	5260.9	5320.0	5392.9	5443.3	5478.1	5485.0
10°	5389.5	5344.3	5311.3	5318.2	5373.8	5453.7	5537.2	5631.0	5707.4	5754.4	5757.8
12.5°	5549.3	5505.9	5474.6	5504.1	5596.3	5693.5	5780.4	5862.0	5931.5	5978.5	5978.5
15°	5733.5	5702.2	5665.8	5733.5	5858.6	5945.4	5981.9	6021.9	6060.1	6094.8	6087.9
17.5°	5910.7	5881.1	5862.0	5942.0	6072.3	6112.3	6087.9	6058.4	6058.4	6077.5	6081.0
20°	6063.6	6037.5	6049.7	6127.9	6195.6	6154.0	6063.6	5969.8	5931.5	5942.0	5952.4
22.5°	6197.4	6185.2	6221.7	6258.2	6209.5	6063.6	5896.8	5770.0	5723.1	5719.6	5723.1
25°	6353.7	6352.0	6397.2	6331.2	6115.7	5846.4	5622.3	5498.9	5472.8	5493.7	5528.5
27.5°	6548.3	6567.5	6590.0	6348.5	5924.6	5518.0	5290.4	5205.3	5231.4	5281.8	5314.8
30°	6796.8	6848.9	6800.3	6305.1	5650.1	5142.8	4925.6	4901.2	4972.5	5043.8	5078.5
32.5°	7038.3	7120.0	7001.8	6192.2	5295.7	4744.9	4576.4	4569.4	4656.2	4725.8	4774.5
35°	7232.9	7394.4	7153.0	5968.1	4885.6	4378.3	4254.9	4208.1	4239.3	4321.0	4376.6
37.5°	7486.6	7755.9	7257.2	5625.8	4440.9	4076.0	3931.8	3824.1	3796.2	3829.3	3857.1
40°	7950.5	8306.6	7305.8	5148.0	4006.5	3773.7	3627.7	3469.6	3360.2	3280.3	3282.0
42.5°	8707.9	9024.2	7274.5	4567.7	3605.2	3478.3	3313.2	3130.8	2953.7	2772.9	2759.1
45°	9938.0	10091.0	7180.7	3952.6	3252.5	3169.0	3014.4	2832.0	2595.7	2390.7	2371.6
47.5°	11906.6	11567.8	7034.9	3415.8	2941.5	2906.7	2764.3	2554.0	2303.8	2138.7	2124.9
50°	14590.8	13699.6	6963.6	2988.4	2666.9	2677.4	2560.9	2338.6	2102.3	1980.7	1966.8
52.5°	17801.6	16182.4	7100.8	2658.3	2446.3	2482.8	2395.9	2187.5	1989.3	1893.8	1879.9
55°	21132.3	18753.7	7248.6	2418.5	2237.8	2309.0	2279.5	2107.5	1928.6	1839.9	1827.8
57.5°	23983.3	20673.6	6953.2	2223.9	2051.9	2163.1	2189.1	2057.1	1897.3	1817.4	1803.5
60°	25778.2	21446.7	6178.3	2041.5	1904.2	2046.7	2137.1	2043.2	1909.4	1902.5	1892.1
62.5°	26629.5	21379.0	5015.9	1897.3	1812.1	1996.3	2175.3	2121.4	2048.4	2111.0	2116.2
65°	26247.3	20357.4	3735.4	1801.7	1746.1	2015.4	2289.9	2269.1	2088.3	2150.9	2159.6
67.5°	23731.5	17919.8	2766.0	1718.3	1673.2	2069.2	2498.4	2317.7	2010.2	2055.4	2027.6
70°	19181.1	14206.9	2133.5	1624.5	1598.4	2062.4	2592.2	2288.2	1925.0	1935.5	1860.8
72.5°	13227.0	9687.9	1735.7	1537.6	1490.7	1879.9	2526.2	2215.2	1853.9	1773.9	1674.8
75°	7192.9	5200.1	1475.1	1447.3	1301.4	1650.5	2404.6	2163.1	1789.5	1683.6	1628.0
77.5°	2830.2	2157.8	1280.5	1323.9	1138.0	1457.7	2269.1	2064.0	1700.9	1561.9	1534.2
80°	1155.4	1101.6	1061.6	1145.0	978.1	1275.3	2105.8	1947.7	1595.0	1449.0	1393.4
82.5°	655.0	684.5	825.3	903.4	794.0	1174.5	2027.6	1853.9	1468.1	1297.8	1231.9
85°	335.4	401.3	575.0	648.1	583.8	999.0	1867.8	1622.8	1177.9	993.8	999.0
87.5°	161.6	224.1	363.1	406.5	378.8	722.8	1395.2	1176.3	917.4	726.2	703.7
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)