

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: P192266

Luminaire Tested: **GLEON-AF-08-LED-E1-T3-7050-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192266
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24140)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-08-LED-E1-T3-7050-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 5000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 52343 lumens
Efficiency: N/A
Efficacy: 102.4 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Short - Full Cutoff
BUG Rating: B4 - U0 - G5

Input Watts (W): 511
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

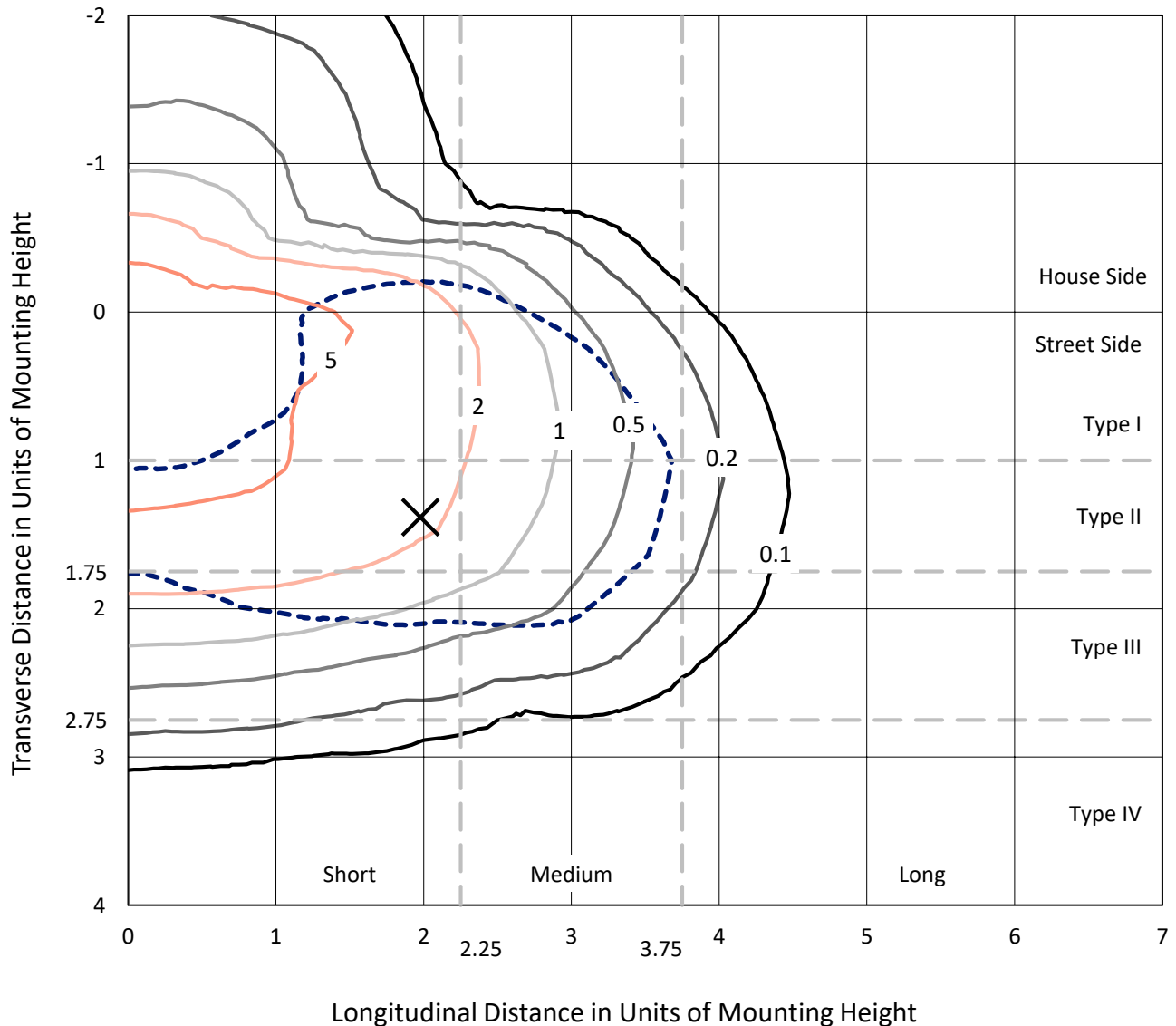


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

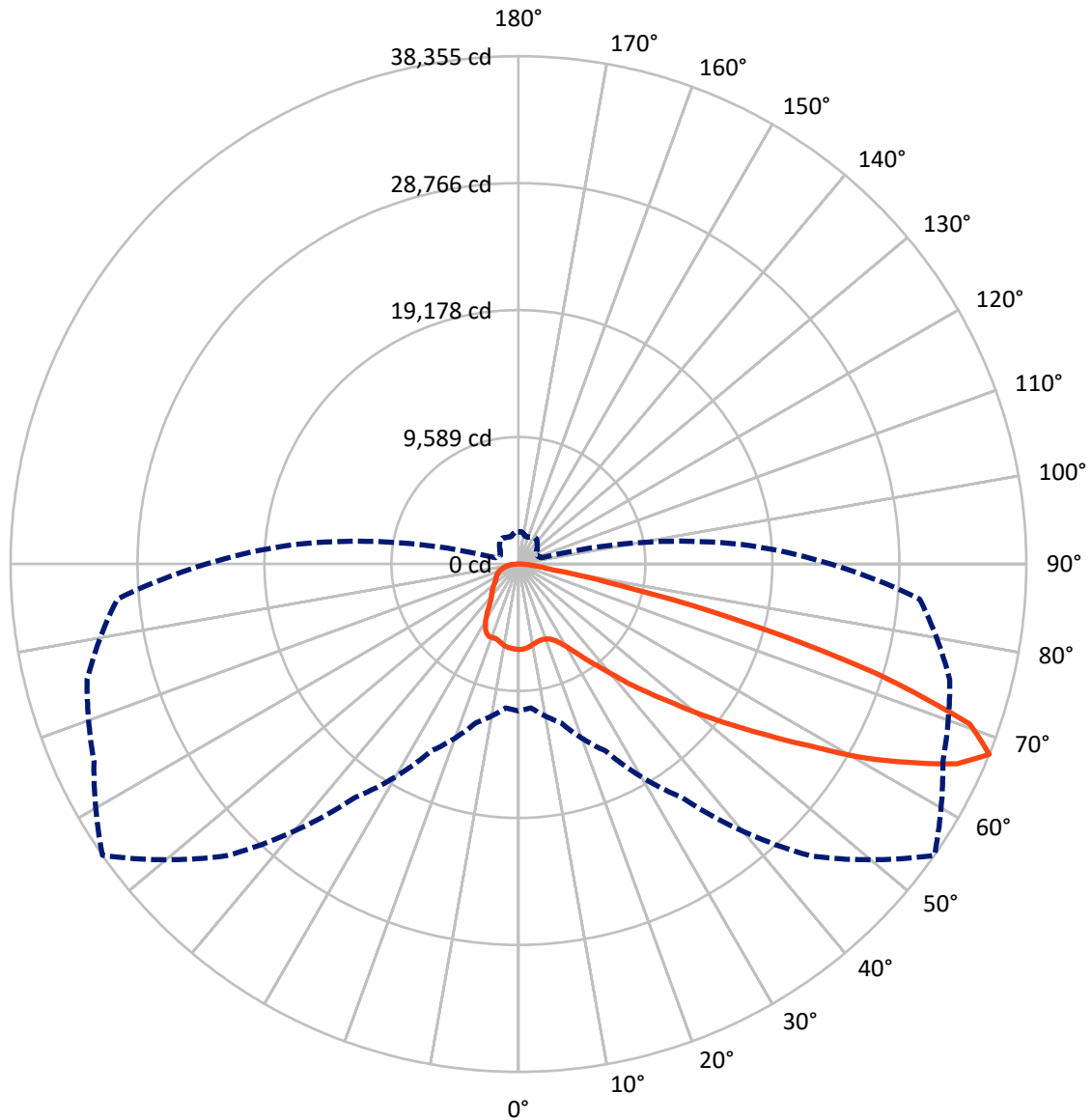


Based on 30 foot mounting height. Maximum calculated value = 7.4 fc
 Type III - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11307.2	0.0	11307.2
	% Fixture	21.6	0.0	21.6
Street Side	Lumens	41035.8	0.0	41035.8
	% Fixture	78.4	0.0	78.4
Total	Lumens	52343.0	0.0	52343.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	602.5	1.2
10°-20°	1706.2	3.3
20°-30°	2858.2	5.5
30°-40°	4700.1	9.0
40°-50°	7911.7	15.1
50°-60°	12452.4	23.8
60°-70°	14860.6	28.4
70°-80°	6381.4	12.2
80°-90°	870.0	1.7
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°	52343.0	100.0
0°-180°	52343.0	100.0



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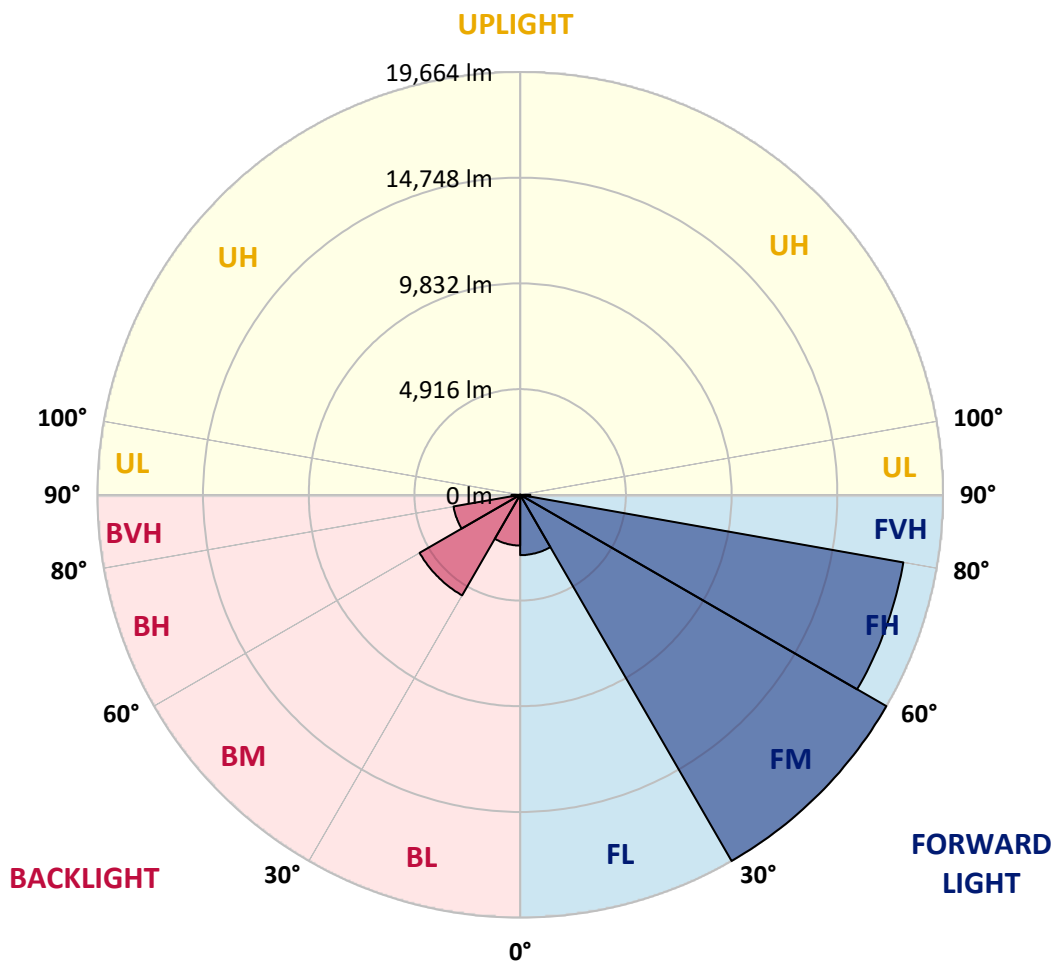
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2805.7	5.4			
FM	(30°-60°)	19663.9	37.6			
FH	(60°-80°)	18095.2	34.6			G5
FVH	(80°-90°)	471.0	0.9			G3/500
BL	(0°-30°)	2361.2	4.5	B3/2500		
BM	(30°-60°)	5400.2	10.3	B4/8500		
BH	(60°-80°)	3146.7	6.0	B4/5000		G4/5000
BVH	(80°-90°)	399.1	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°	65°	75°	85°	90°
0°	6454.5	6454.5	6454.5	6454.5	6454.5	6454.5	6454.5	6454.5	6454.5	6454.5	6454.5
2.5°	6398.8	6401.4	6406.4	6426.7	6444.4	6439.3	6441.8	6431.7	6429.2	6414.0	6429.2
5°	6317.9	6325.5	6328.1	6360.9	6381.1	6386.2	6378.6	6366.0	6350.8	6335.6	6343.2
7.5°	6133.4	6153.6	6156.1	6201.6	6234.5	6277.5	6280.0	6282.5	6275.0	6264.8	6280.0
10°	6017.1	6022.1	6019.6	6052.5	6077.8	6125.8	6153.6	6201.6	6221.9	6226.9	6237.0
12.5°	6009.5	6004.4	5996.9	5996.9	5989.3	6009.5	6060.1	6128.3	6176.4	6191.5	6204.2
15°	6090.4	6087.9	6062.6	6024.7	5976.6	5961.5	6004.4	6080.3	6143.5	6176.4	6189.0
17.5°	6272.4	6257.3	6216.8	6130.9	6027.2	5986.7	5991.8	6055.0	6128.3	6171.3	6183.9
20°	6606.2	6606.2	6520.2	6358.4	6173.8	6077.8	6032.3	6070.2	6141.0	6199.1	6216.8
22.5°	7182.6	7187.6	7043.5	6778.1	6467.1	6262.3	6148.6	6141.0	6224.4	6290.1	6310.4
25°	7999.2	7979.0	7776.7	7397.5	6924.7	6585.9	6388.7	6343.2	6414.0	6487.3	6512.6
27.5°	8949.8	8876.5	8636.3	8178.7	7566.9	7071.3	6768.0	6694.6	6762.9	6846.3	6871.6
30°	9890.3	9814.4	9528.7	9028.2	8348.1	7721.1	7286.2	7167.4	7263.5	7382.3	7397.5
32.5°	10830.8	10830.8	10512.2	9928.2	9187.4	8497.2	7976.4	7834.9	7994.1	8138.2	8171.1
35°	11955.8	11960.9	11652.4	10949.6	10153.2	9422.6	8848.7	8745.0	8985.2	9086.3	9164.7
37.5°	13338.7	13366.5	12969.6	12120.1	11247.9	10479.3	9796.7	9655.1	9895.3	10170.9	10423.7
40°	14832.9	14868.3	14430.9	13384.2	12512.0	11708.0	10969.8	10714.5	11113.9	11639.8	11965.9
42.5°	16258.8	16440.8	16018.6	14941.6	14003.6	13171.9	12423.5	12051.9	12552.5	13346.3	13629.5
45°	18319.2	18450.7	17715.0	16739.1	15856.8	14926.4	13935.4	13543.5	14243.8	15245.0	15303.1
47.5°	19692.1	19593.5	19219.3	18612.5	18053.8	17184.1	15692.5	15262.7	16193.0	17371.2	17045.0
50°	20422.7	20453.0	20402.5	20437.9	20458.1	19912.0	17846.5	17257.4	18367.3	19790.7	19039.8
52.5°	21105.3	20903.1	21069.9	21899.2	22900.3	22698.1	20190.1	19575.8	20698.3	22475.6	21148.3
55°	21090.1	20781.7	21325.3	22789.1	24960.8	25193.4	22822.0	22114.1	23163.3	25355.2	23383.2
57.5°	20344.3	20359.5	21196.3	23112.7	26396.8	27539.6	25876.0	24814.2	25777.4	28272.7	25423.5
60°	19317.9	19456.9	20662.9	23059.6	27547.1	29463.5	29622.8	27724.1	28338.5	30924.8	27112.3
62.5°	17661.9	17808.6	19472.1	22508.5	27372.7	31316.7	33010.5	31025.9	31015.8	32532.7	27607.8
65°	15050.3	15007.3	16754.3	20448.0	25908.9	32686.9	36375.6	33880.2	33033.3	32558.0	26611.7
67.5°	11098.7	10906.6	12405.8	15573.6	21535.1	31152.3	38355.1	35366.8	33721.0	30416.6	23567.8
70°	5759.2	5567.1	6780.6	9093.9	14162.9	24313.6	36163.2	34598.3	32201.5	25496.8	18463.4
72.5°	2462.5	2429.6	2922.6	3989.5	6851.4	14023.9	28356.2	29946.4	27630.6	18996.8	12694.0
75°	1656.0	1645.9	1830.4	2174.2	3081.9	5691.0	17745.4	21257.0	20215.4	11778.8	7139.6
77.5°	1299.5	1286.8	1395.6	1562.4	1997.3	2245.0	7875.3	11412.2	10562.8	5127.2	3124.8
80°	1016.3	1006.2	1074.5	1165.5	1436.0	1415.8	2591.4	4540.6	3514.2	1964.4	1519.4
82.5°	801.4	801.4	857.1	859.6	1018.9	965.8	1352.6	1999.8	1754.6	1145.3	930.4
85°	733.2	733.2	791.3	642.2	664.9	609.3	839.4	1185.7	1112.4	470.2	404.5
87.5°	369.1	359.0	664.9	568.8	361.5	323.6	409.6	573.9	616.9	260.4	202.3
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	6454.5	6454.5	6454.5	6454.5	6454.5	6454.5	6454.5	6454.5	6454.5	6454.5
2.5°	6424.1	6421.6	6426.7	6429.2	6449.4	6477.2	6489.9	6507.6	6517.7	6512.6
5°	6348.3	6353.3	6373.6	6388.7	6424.1	6469.6	6494.9	6515.1	6532.8	6525.3
7.5°	6285.1	6297.7	6328.1	6340.7	6360.9	6373.6	6371.0	6378.6	6393.8	6376.1
10°	6249.7	6264.8	6287.6	6269.9	6221.9	6153.6	6090.4	6057.5	6067.7	6055.0
12.5°	6214.3	6234.5	6216.8	6133.4	5999.4	5910.9	5862.9	5867.9	5890.7	5895.7
15°	6194.1	6201.6	6125.8	5969.1	5832.5	5819.9	5845.2	5840.1	5842.6	5842.6
17.5°	6194.1	6173.8	6032.3	5875.5	5817.4	5794.6	5716.2	5617.6	5574.7	5559.5
20°	6226.9	6173.8	6001.9	5898.3	5771.9	5577.2	5369.9	5187.8	5106.9	5084.2
22.5°	6325.5	6234.5	6087.9	5908.4	5549.4	5223.2	4894.6	4677.1	4530.5	4505.2
25°	6525.3	6424.1	6257.3	5774.4	5195.4	4730.2	4356.1	4113.4	3966.7	3946.5
27.5°	6874.1	6808.4	6348.3	5478.6	4725.2	4227.1	3880.8	3693.7	3585.0	3577.4
30°	7400.0	7367.1	6302.8	5041.2	4146.2	3739.2	3572.3	3463.6	3382.7	3380.2
32.5°	8239.4	7973.9	6153.6	4507.8	3617.8	3392.8	3324.6	3258.8	3195.6	3195.6
35°	9318.9	8464.4	5870.5	3936.4	3296.8	3200.7	3114.7	3011.1	2927.6	2922.6
37.5°	10588.1	8767.8	5362.3	3476.3	3145.1	3071.7	2945.3	2791.1	2644.5	2619.2
40°	11869.8	8858.8	4646.8	3193.1	3049.0	2942.8	2788.6	2606.6	2465.0	2457.4
42.5°	13045.4	8684.3	3888.4	2998.4	2952.9	2811.3	2649.5	2487.7	2376.5	2374.0
45°	14031.4	8231.8	3251.2	2813.9	2851.8	2692.5	2548.4	2416.9	2331.0	2313.3
47.5°	14959.3	7592.1	2803.8	2619.2	2750.7	2626.8	2505.4	2381.6	2298.1	2285.5
50°	16036.3	6902.0	2490.3	2429.6	2662.2	2604.0	2540.8	2411.9	2272.8	2257.7
52.5°	17340.8	6305.3	2245.0	2262.7	2593.9	2634.4	2631.8	2497.8	2255.1	2234.9
55°	18797.1	5642.9	2060.5	2126.2	2566.1	2690.0	2654.6	2578.8	2270.3	2240.0
57.5°	20230.6	4869.3	1931.5	2022.6	2525.7	2684.9	2545.9	2437.2	2305.7	2262.7
60°	21305.0	3830.2	1832.9	1931.5	2437.2	2601.5	2427.1	2283.0	2298.1	2265.3
62.5°	21375.8	2960.5	1714.1	1853.2	2303.2	2518.1	2348.7	2214.7	2331.0	2300.7
65°	20119.3	2237.4	1600.3	1759.6	2159.1	2465.0	2272.8	2176.8	2399.3	2366.4
67.5°	16938.9	1800.1	1504.3	1663.5	2015.0	2353.7	2204.6	2141.4	2459.9	2401.8
70°	12228.8	1534.6	1410.7	1547.3	1886.0	2227.3	2143.9	2078.2	2295.6	2204.6
72.5°	7528.9	1329.8	1304.5	1393.0	1787.4	2095.9	2052.9	1959.3	2068.1	1994.7
75°	3759.4	1152.9	1185.7	1241.3	1648.4	1946.7	1901.2	1807.7	1822.8	1807.7
77.5°	1800.1	986.0	1046.7	1089.6	1468.9	1777.3	1729.3	1633.2	1615.5	1618.0
80°	1140.2	824.2	882.3	912.7	1312.1	1580.1	1532.1	1436.0	1638.3	1519.4
82.5°	712.9	670.0	685.1	740.8	1142.7	1375.3	1312.1	1226.2	1476.5	1168.0
85°	394.4	467.7	487.9	536.0	879.8	1150.3	1087.1	978.4	877.3	862.1
87.5°	235.1	278.1	285.7	321.1	591.6	831.8	735.7	697.8	579.0	576.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)