

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: P192183

Luminaire Tested: **GLEON-AF-05-LED-E1-T2-7050-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192183
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24139)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-05-LED-E1-T2-7050-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 5000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32026 lumens
Efficiency: N/A
Efficacy: 100.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium - Full Cutoff
BUG Rating: B3 - U0 - G4

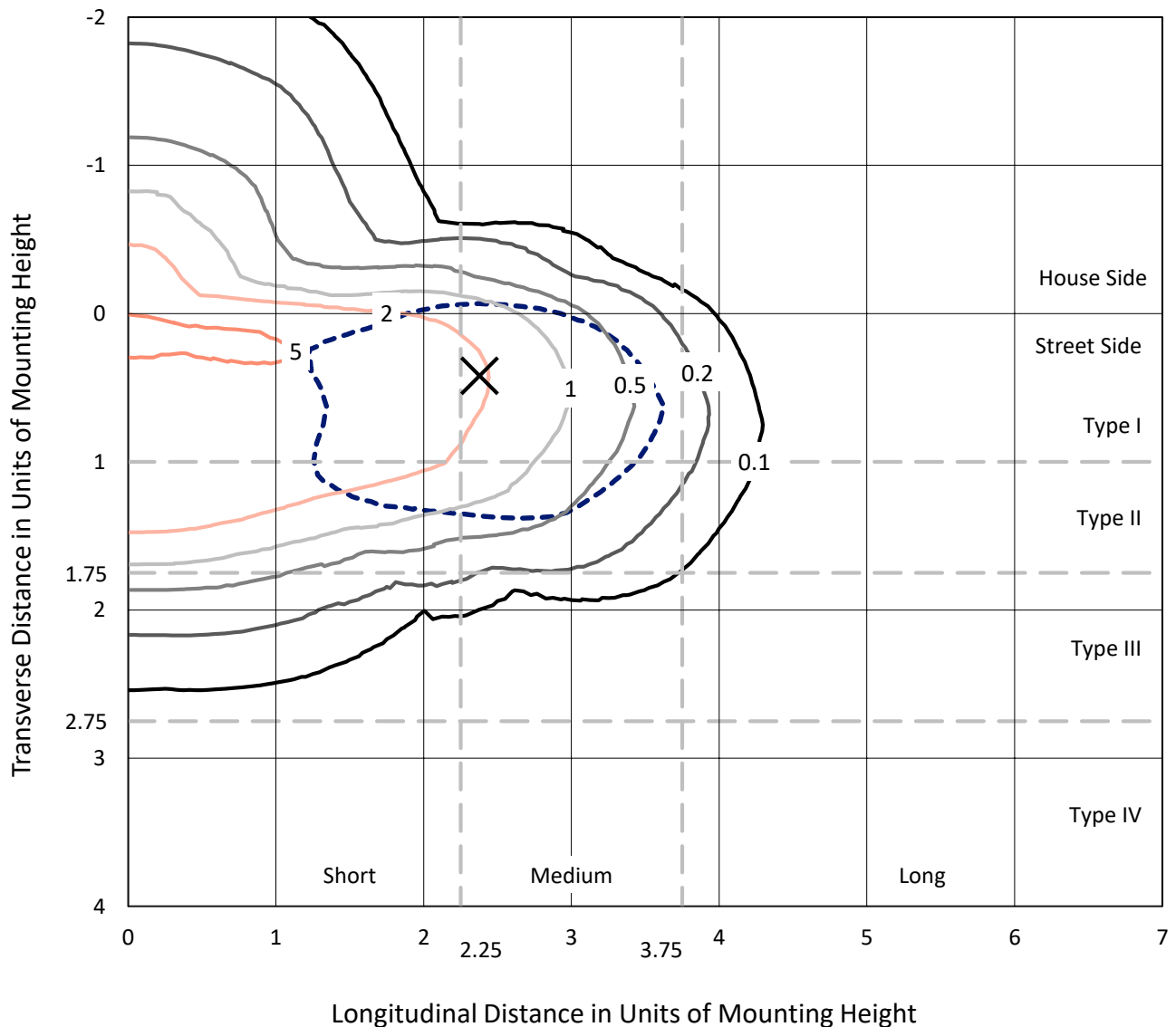
Input Watts (W): 320
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

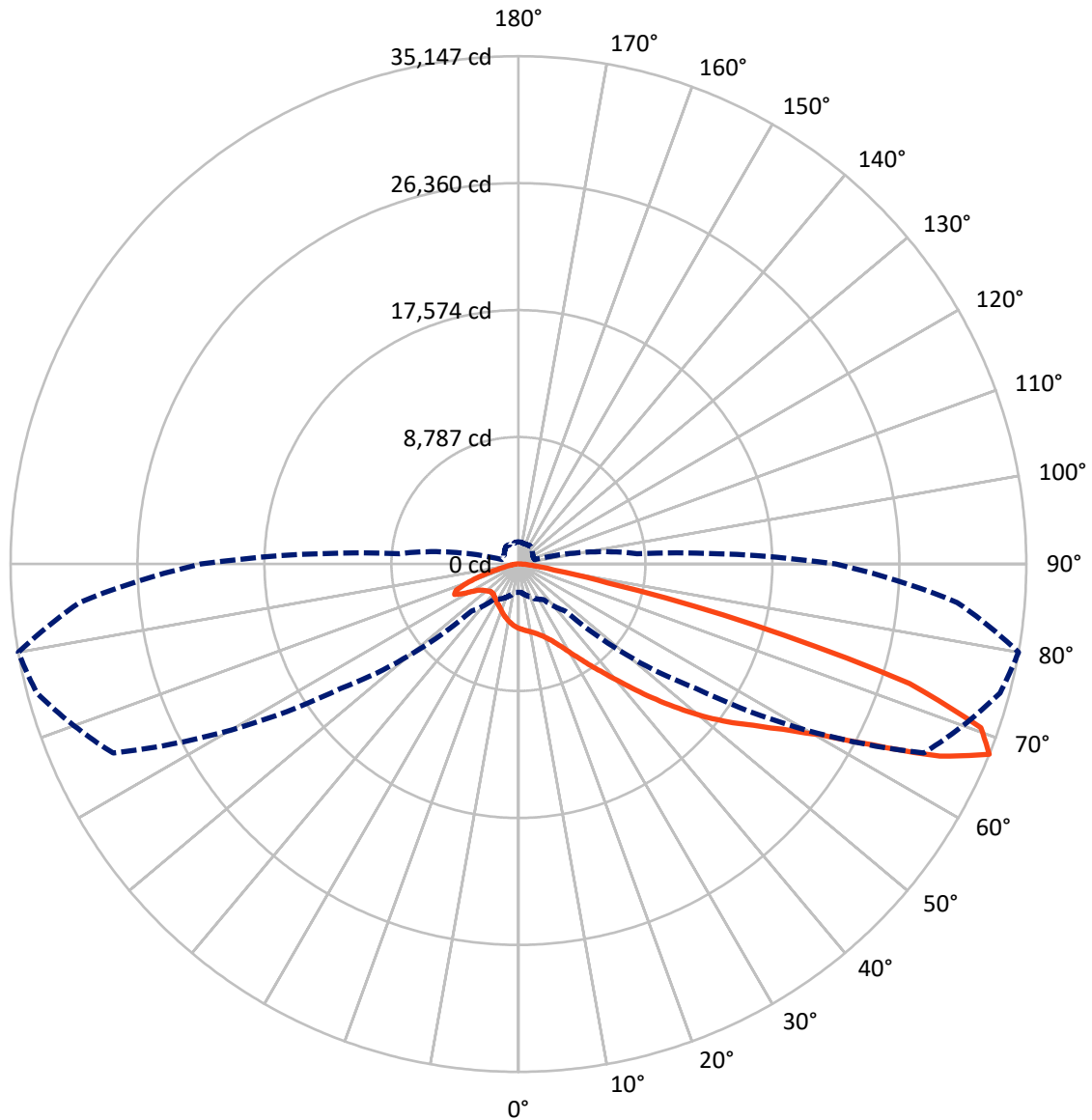
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6 fc
 Type II - Medium - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 80-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5898.0	0.0	5898.0
	% Fixture	18.4	0.0	18.4
Street Side	Lumens	26128.0	0.0	26128.0
	% Fixture	81.6	0.0	81.6
Total	Lumens	32026.0	0.0	32026.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	410.4	1.3
10°-20°	1182.3	3.7
20°-30°	1957.0	6.1
30°-40°	3201.2	10.0
40°-50°	5168.6	16.1
50°-60°	7462.0	23.3
60°-70°	8234.8	25.7
70°-80°	3795.7	11.9
80°-90°	613.9	1.9
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°	32026.0	100.0
0°-180°	32026.0	100.0



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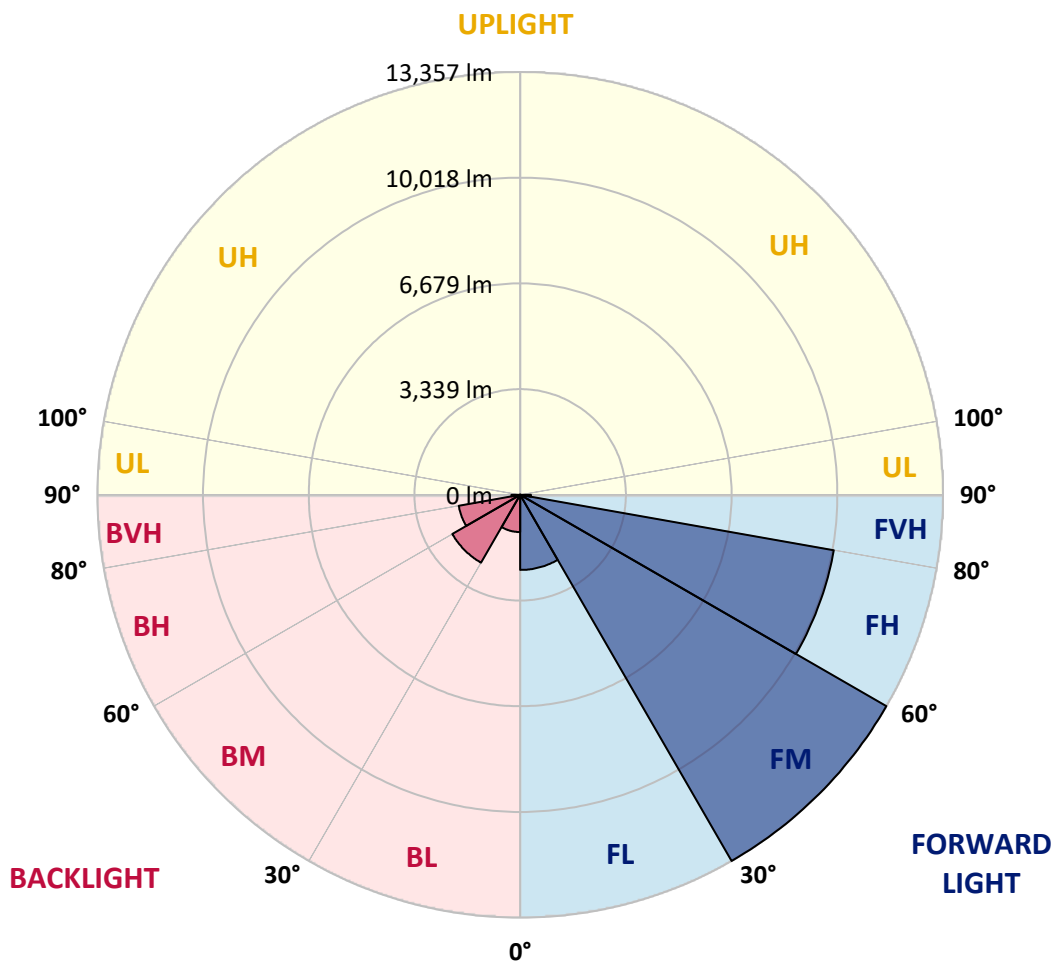
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2373.1	7.4			
FM (30°-60°)	13357.2	41.7			
FH (60°-80°)	10060.2	31.4			G4/12000
FVH (80°-90°)	337.5	1.1			G3/500
BL (0°-30°)	1176.7	3.7	B3/2500		
BM (30°-60°)	2474.6	7.7	B2/2500		
BH (60°-80°)	1970.3	6.2	B3/2500		G3/2500
BVH (80°-90°)	276.4	0.9			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	80°	85°
0°	4449.3	4449.3	4449.3	4449.3	4449.3	4449.3	4449.3	4449.3	4449.3	4449.3	4449.3
2.5°	4867.2	4838.8	4843.5	4835.6	4812.0	4771.0	4726.8	4646.4	4562.9	4518.7	4484.0
5°	5273.9	5266.1	5255.0	5229.8	5169.9	5084.7	4979.1	4837.2	4684.3	4603.9	4526.6
7.5°	5578.2	5573.5	5559.3	5543.5	5485.2	5382.7	5223.5	5021.7	4799.4	4689.0	4569.2
10°	5603.5	5611.3	5622.4	5665.0	5672.8	5617.7	5455.3	5210.9	4919.2	4777.3	4624.4
12.5°	5389.0	5406.4	5448.9	5557.7	5672.8	5740.6	5657.1	5409.5	5059.5	4887.7	4693.7
15°	5105.2	5114.7	5166.7	5316.5	5523.1	5732.7	5811.6	5628.7	5240.8	5029.6	4797.8
17.5°	4983.8	4988.6	5024.8	5124.2	5316.5	5616.1	5898.3	5866.8	5463.1	5206.1	4925.5
20°	4922.3	4933.4	4985.4	5083.2	5204.6	5466.3	5910.9	6123.8	5728.0	5426.9	5086.3
22.5°	5097.4	5092.6	5111.5	5160.4	5262.9	5420.6	5901.4	6388.6	6065.4	5710.7	5296.0
25°	5505.7	5523.1	5489.9	5434.8	5467.9	5578.2	5951.9	6675.6	6488.0	6074.9	5570.4
27.5°	6087.5	6070.2	6021.3	5892.0	5824.2	5871.5	6119.0	6984.6	7013.0	6554.2	5933.0
30°	6667.7	6653.5	6606.2	6448.6	6309.8	6270.4	6443.8	7339.4	7638.9	7129.7	6377.6
32.5°	7270.0	7254.2	7210.1	7052.4	6885.3	6793.8	6905.8	7749.3	8376.8	7817.1	6901.1
35°	8012.6	7982.6	7889.6	7670.5	7506.5	7435.5	7487.6	8264.9	9228.2	8630.7	7536.4
37.5°	8711.1	8756.8	8662.2	8359.5	8146.6	8121.4	8179.7	8894.0	10145.8	9540.4	8266.4
40°	9412.7	9420.6	9335.4	9087.9	8868.7	8827.7	8974.4	9657.1	11229.0	10628.3	9154.1
42.5°	10137.9	10153.7	10010.2	9781.6	9620.8	9628.7	9795.8	10551.0	12471.4	11910.1	10175.8
45°	10997.2	11020.9	10863.2	10563.6	10417.0	10711.8	10642.5	11553.8	13833.6	13366.9	11348.8
47.5°	11895.9	11932.2	11812.4	11531.7	11348.8	11754.0	11489.1	12665.3	15299.9	14929.4	12637.0
50°	12386.3	12438.3	12555.0	12534.5	12495.1	12427.3	12433.6	13857.3	16812.0	16556.5	13961.4
52.5°	12123.0	12121.4	12547.1	13064.2	13616.1	13657.1	13584.5	15113.9	18224.6	18147.4	15208.5
55°	10918.4	11000.4	11645.2	12646.4	14153.7	15095.0	15309.4	16553.4	19612.1	19702.0	16474.6
57.5°	8912.9	8980.7	9851.0	11246.3	13428.4	15949.5	17762.7	18645.6	21163.5	21582.9	18160.0
60°	6044.9	6126.9	7049.3	8725.3	11476.5	15473.4	20097.7	22379.2	23020.9	23974.7	20525.0
62.5°	3552.2	3626.3	4378.4	5504.1	8080.4	13261.3	21122.6	27690.9	25970.8	27583.7	24132.4
65°	2445.4	2495.9	2861.6	3426.1	4643.3	8931.8	19851.8	31358.2	30510.0	32055.1	28315.3
67.5°	1967.7	1961.4	2251.5	2636.2	2989.4	4605.4	15011.4	30943.6	34502.1	35147.0	30486.4
70°	1620.8	1614.5	1811.6	2130.1	2388.6	2593.6	8176.6	26112.7	33688.6	33950.3	28487.1
72.5°	1355.9	1362.2	1488.4	1724.9	1959.8	1953.5	3593.2	18369.7	26502.1	28312.1	22708.7
75°	1144.7	1147.8	1231.4	1398.5	1590.9	1573.5	1948.8	9951.9	15405.6	16665.3	12588.1
77.5°	974.4	977.5	1031.1	1124.2	1261.3	1255.0	1422.1	4299.6	6426.5	6347.6	4305.9
80°	868.7	868.7	894.0	911.3	987.0	958.6	1054.8	2065.4	2716.6	2508.5	1718.6
82.5°	681.1	684.3	838.8	832.5	777.3	741.0	741.0	1217.2	1439.5	1330.7	1005.9
85°	383.1	381.6	540.8	652.7	684.3	521.9	517.1	681.1	783.6	690.6	487.2
87.5°	164.0	167.1	250.7	290.1	387.9	324.8	320.1	351.6	398.9	345.3	225.5
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°	4449.3	4449.3	4449.3	4449.3	4449.3	4449.3	4449.3	4449.3	4449.3	4449.3	4449.3
2.5°	4450.9	4409.9	4320.1	4208.1	4107.2	4041.0	3981.1	3894.4	3899.1	3839.2	3795.0
5°	4447.8	4362.6	4154.5	3907.0	3668.9	3497.0	3367.8	3251.1	3222.7	3167.5	3134.4
7.5°	4450.9	4312.2	3962.2	3566.4	3271.6	3054.0	2943.6	2882.1	2867.9	2849.0	2850.6
10°	4462.0	4266.4	3750.9	3247.9	2938.9	2795.4	2768.6	2787.5	2809.6	2815.9	2817.5
12.5°	4487.2	4225.5	3519.1	2964.1	2730.8	2686.6	2732.4	2797.0	2839.6	2860.1	2858.5
15°	4543.9	4193.9	3296.8	2741.8	2615.7	2639.3	2724.5	2815.9	2877.4	2905.8	2907.4
17.5°	4605.4	4148.2	3068.2	2571.5	2530.5	2590.5	2696.1	2803.3	2879.0	2910.5	2916.8
20°	4685.8	4091.4	2828.5	2443.8	2450.1	2517.9	2617.3	2724.5	2808.0	2834.8	2847.5
22.5°	4791.5	4030.0	2618.8	2339.8	2358.7	2410.7	2488.0	2581.0	2653.5	2666.1	2677.2
25°	4933.4	3963.7	2451.7	2245.2	2253.1	2283.0	2335.0	2390.2	2440.7	2426.5	2437.5
27.5°	5124.2	3907.0	2327.2	2158.5	2144.3	2150.6	2177.4	2194.7	2221.5	2182.1	2186.8
30°	5348.0	3845.5	2231.0	2082.8	2043.4	2032.3	2038.6	2048.1	2068.6	2015.0	2007.1
32.5°	5608.2	3771.4	2141.1	2016.6	1961.4	1939.3	1942.4	1967.7	2046.5	2013.4	1996.1
35°	5910.9	3687.8	2046.5	1944.0	1906.2	1874.7	1871.5	1950.3	2185.3	2164.8	2149.0
37.5°	6265.7	3604.3	1951.9	1862.0	1865.2	1830.5	1819.5	1909.3	2212.1	2131.6	2120.6
40°	6716.6	3560.1	1871.5	1775.3	1814.7	1810.0	1787.9	1833.7	2035.5	1888.8	1869.9
42.5°	7274.7	3566.4	1811.6	1682.3	1754.8	1805.3	1770.6	1772.2	1844.7	1734.3	1717.0
45°	7963.7	3640.5	1769.0	1608.2	1687.0	1800.5	1764.3	1739.1	1745.4	1687.0	1677.6
47.5°	8767.8	3793.5	1739.1	1546.7	1622.4	1783.2	1762.7	1729.6	1715.4	1683.9	1676.0
50°	9661.8	4015.8	1717.0	1488.4	1564.0	1754.8	1764.3	1720.1	1704.4	1691.8	1687.0
52.5°	10540.0	4269.6	1683.9	1437.9	1518.3	1720.1	1769.0	1710.7	1693.3	1683.9	1679.1
55°	11519.1	4586.5	1633.4	1395.3	1480.5	1676.0	1769.0	1696.5	1677.6	1679.1	1677.6
57.5°	12841.9	5098.9	1573.5	1359.1	1434.8	1622.4	1739.1	1680.7	1657.1	1658.6	1660.2
60°	14908.9	6002.4	1501.0	1322.8	1378.0	1559.3	1698.1	1646.0	1622.4	1628.7	1630.3
62.5°	17948.7	7328.3	1406.4	1269.2	1318.1	1491.5	1641.3	1601.9	1578.2	1594.0	1594.0
65°	21108.4	8498.2	1289.7	1201.4	1255.0	1417.4	1570.4	1546.7	1523.1	1559.3	1557.7
67.5°	21958.2	8236.5	1173.0	1127.3	1192.0	1335.4	1485.2	1472.6	1460.0	1523.1	1519.9
70°	19506.5	6612.5	1065.8	1051.6	1122.6	1247.1	1393.8	1393.8	1385.9	1433.2	1422.1
72.5°	14861.6	4689.0	963.3	971.2	1043.8	1151.0	1294.4	1305.5	1292.9	1316.5	1307.1
75°	7955.8	2683.5	860.9	882.9	946.0	1053.2	1184.1	1195.1	1187.2	1185.7	1190.4
77.5°	2644.1	1311.8	753.6	788.3	843.5	952.3	1069.0	1086.3	1067.4	1064.2	1062.7
80°	1177.8	824.6	635.4	681.1	730.0	837.2	947.6	961.8	941.3	969.6	933.4
82.5°	756.8	542.4	509.3	559.7	607.0	722.1	826.2	829.3	810.4	941.3	802.5
85°	367.4	335.8	383.1	428.9	469.8	567.6	684.3	685.8	638.5	581.8	561.3
87.5°	182.9	195.5	255.4	296.4	316.9	389.4	498.2	488.8	468.3	425.7	392.6
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)