

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: P193503

Luminaire Tested: **GLEON-AF-05-LED-E1-AFL-8030-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193503
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24165)
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-AFL-8030-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20122 lumens
Efficiency: N/A
Efficacy: 95.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B2 - U0 - G2

Input Watts (W): 210
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

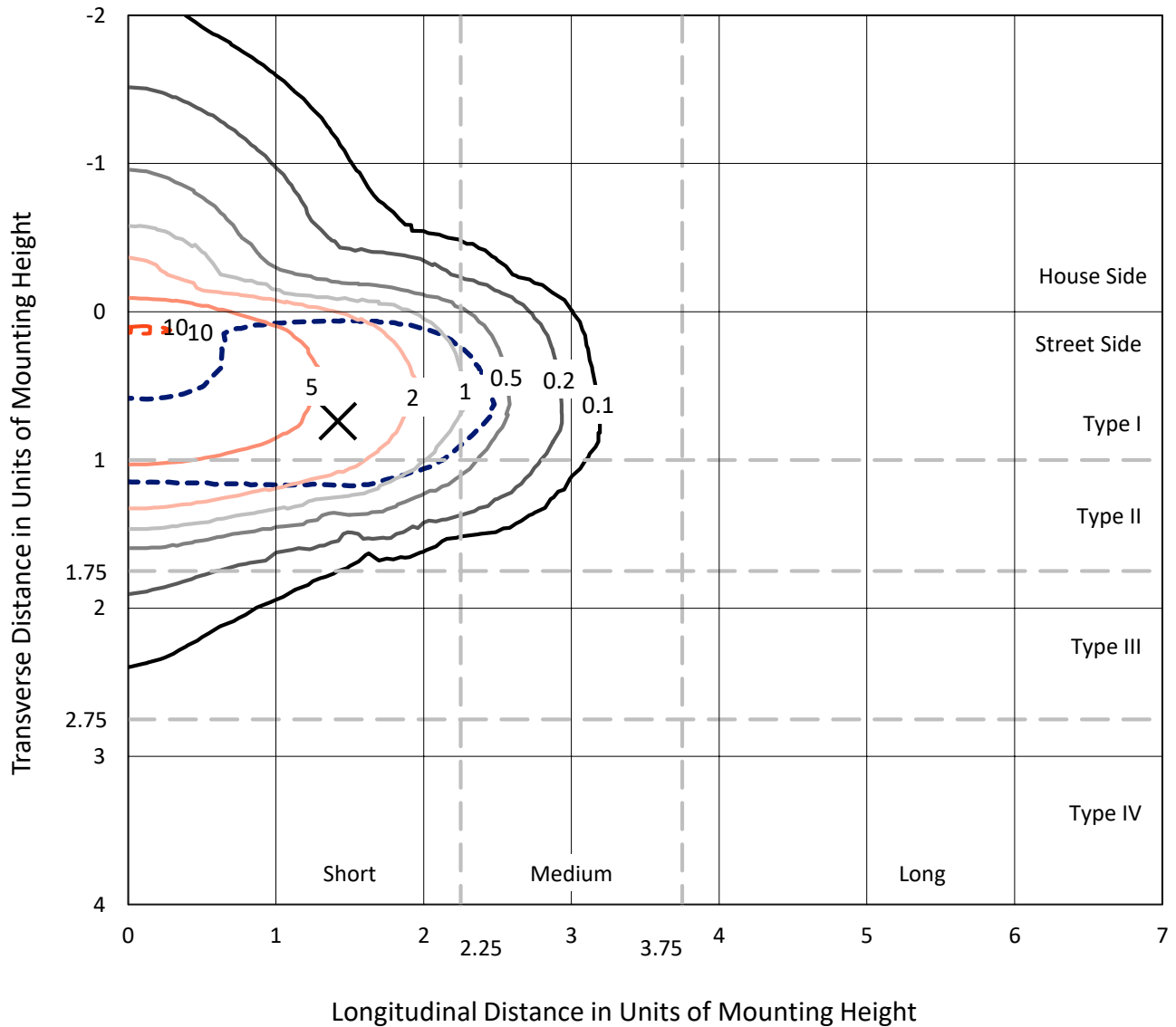


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Iso-Footcandle Lines of Horizontal Illumination

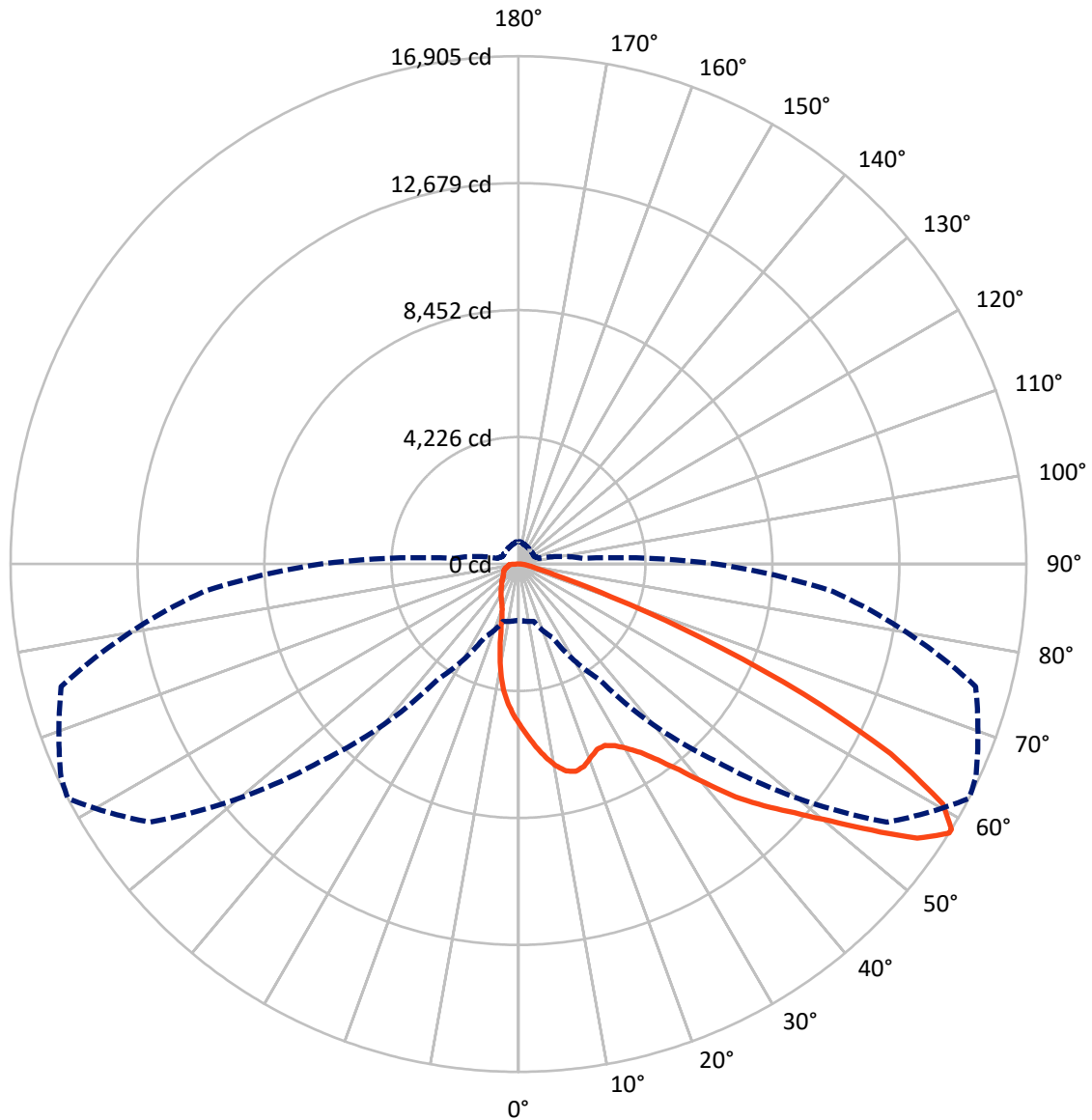
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.4 fc
 Type II - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 62.5-Deg Lateral - - - Horizontal Cone Through 58-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3068.7	0.0	3068.7
	% Fixture	15.3	0.0	15.3
Street Side	Lumens	17053.3	0.0	17053.3
	% Fixture	84.7	0.0	84.7
Total	Lumens	20122.0	0.0	20122.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	478.0	2.4
10°-20°	1221.9	6.1
20°-30°	1975.3	9.8
30°-40°	3135.7	15.6
40°-50°	4588.2	22.8
50°-60°	4798.9	23.8
60°-70°	2835.2	14.1
70°-80°	798.7	4.0
80°-90°	290.0	1.4
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°	20122.0	100.0
0°-180°	20122.0	100.0



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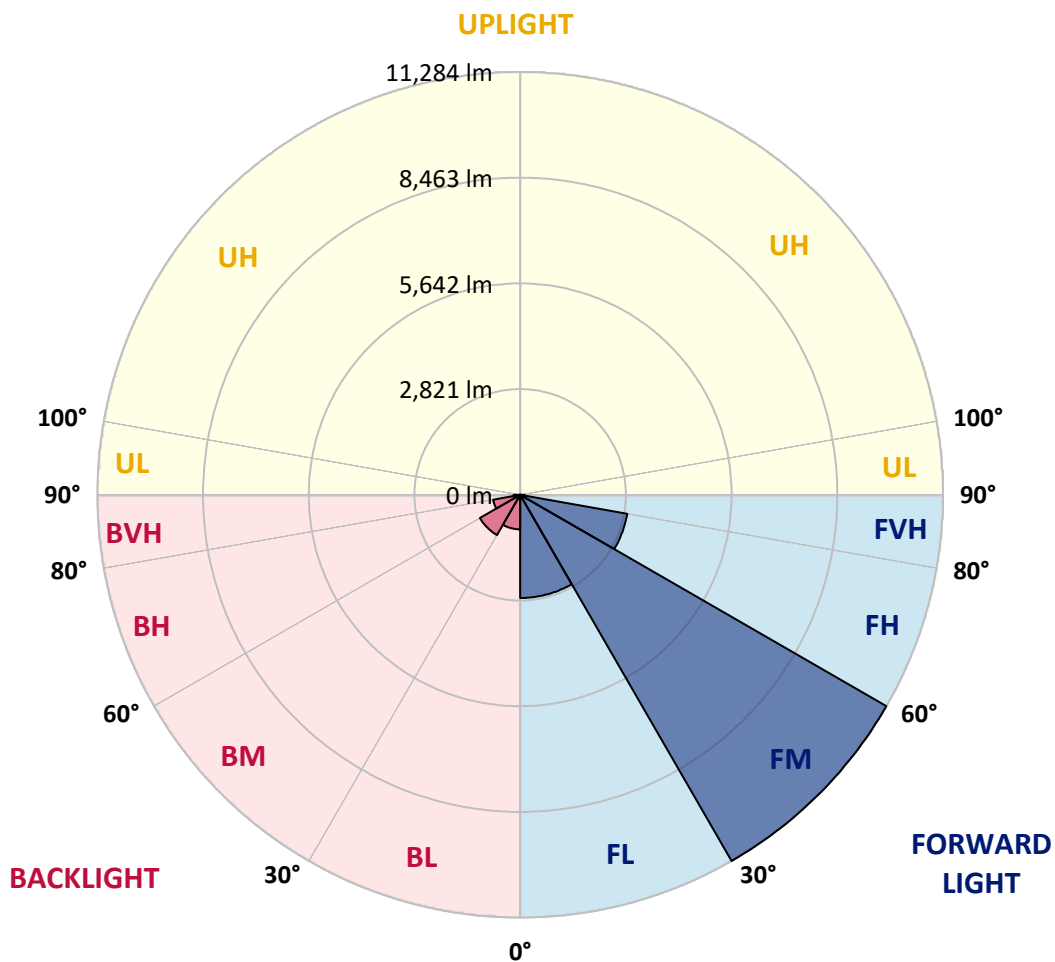
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2752.9	13.7			
FM (30°-60°)	11284.3	56.1			
FH (60°-80°)	2901.7	14.4			G2/5000
FVH (80°-90°)	114.4	0.6			G2/225
BL (0°-30°)	922.3	4.6	B2/1000		
BM (30°-60°)	1238.6	6.2	B2/2500		
BH (60°-80°)	732.2	3.6	B2/1000		G2/1000
BVH (80°-90°)	175.6	0.9			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	62.5°	65°	75°	85°
0°	5345.0	5345.0	5345.0	5345.0	5345.0	5345.0	5345.0	5345.0	5345.0	5345.0	5345.0
2.5°	6107.8	6058.5	6027.2	5999.7	5963.7	5887.0	5783.7	5718.3	5685.2	5572.4	5438.8
5°	6706.6	6663.0	6630.8	6593.8	6529.4	6409.1	6242.3	6109.7	6044.3	5818.8	5551.6
7.5°	6566.4	6584.4	6640.3	6737.9	6821.2	6805.1	6656.4	6487.7	6401.5	6087.9	5682.3
10°	5721.2	5752.4	5849.1	6077.4	6447.0	6826.0	6941.6	6825.0	6737.9	6354.1	5816.9
12.5°	5551.6	5550.6	5558.2	5618.8	5838.7	6372.1	6951.1	7068.6	7016.4	6608.1	5954.3
15°	5620.7	5622.6	5616.9	5642.5	5710.7	5922.0	6661.1	7162.4	7199.3	6863.9	6096.4
17.5°	5802.7	5797.9	5776.1	5776.1	5800.8	5883.2	6320.0	7075.2	7245.7	7090.3	6221.5
20°	6107.8	6086.0	6028.2	5975.1	5948.6	5993.1	6179.8	6874.3	7165.2	7288.4	6324.7
22.5°	6477.3	6460.2	6366.4	6252.7	6160.8	6159.9	6251.8	6699.0	7025.9	7475.0	6411.9
25°	6954.8	6927.4	6788.1	6606.2	6445.1	6383.5	6409.1	6690.5	6950.1	7677.8	6489.6
27.5°	7515.8	7465.6	7300.7	7038.2	6801.3	6677.2	6640.3	6844.9	7019.3	7928.9	6597.6
30°	8196.1	8138.3	7927.0	7585.0	7250.5	7046.8	6968.1	7118.8	7248.6	8235.0	6771.0
32.5°	8970.2	8886.9	8642.4	8265.3	7825.6	7514.8	7386.9	7480.7	7584.0	8603.5	6988.0
35°	10040.0	9940.5	9587.1	9066.9	8570.4	8143.0	7938.4	8006.6	8107.0	9153.1	7301.6
37.5°	10769.6	10725.1	10490.1	10001.1	9461.1	8969.3	8652.8	8692.6	8749.5	9840.1	7703.4
40°	10763.0	10781.0	10785.7	10790.4	10422.8	9951.9	9611.7	9570.0	9558.7	10594.3	8160.1
42.5°	10223.8	10297.7	10536.5	11020.7	11244.3	11028.3	10716.5	10596.2	10536.5	11483.1	8644.3
45°	9398.5	9438.3	9885.5	10831.2	11665.0	12094.2	11858.3	11479.3	11371.3	12299.8	9046.0
47.5°	8973.1	9016.7	9298.1	10329.0	11660.3	12955.5	13092.0	12370.0	12176.7	13010.5	9392.8
50°	7960.2	8051.1	8405.5	9455.4	11234.8	13351.6	14381.6	13431.2	13031.3	13702.2	9740.6
52.5°	6100.2	6240.4	6637.4	8018.9	10155.6	13155.5	15413.4	14717.9	14153.2	14418.5	10039.0
55°	3847.9	3952.1	4285.7	5663.4	8124.1	12135.0	15804.7	16109.9	15607.7	15096.9	10297.7
57.5°	2092.1	2138.6	2263.6	3126.8	5284.4	9878.9	15234.3	16902.0	16693.5	15673.0	10492.9
58°	1872.3	1903.6	1981.3	2709.9	4686.5	9262.1	14981.3	16904.8	16800.6	15757.4	10508.1
60°	1389.1	1373.0	1303.8	1546.4	2608.5	6398.6	13452.0	16228.3	16534.3	15860.7	10434.2
62.5°	1220.4	1181.6	1040.4	1024.3	1268.7	2947.8	10293.0	13901.2	14624.1	15271.3	9985.0
65°	1146.5	1104.8	922.9	864.1	915.3	1246.9	6063.2	10425.6	11332.4	13484.3	8836.6
67.5°	1091.6	1037.5	848.0	767.5	771.3	824.3	2430.4	6566.4	7586.8	10238.0	6873.4
70°	1038.5	979.7	784.6	691.7	669.9	651.9	966.5	3287.0	4212.7	6466.9	4382.3
72.5°	981.6	923.8	728.6	632.0	589.4	529.7	631.1	1344.5	1878.0	3059.6	1987.9
75°	899.2	847.1	672.7	578.9	518.3	438.7	476.6	702.1	842.4	1218.5	957.9
77.5°	797.8	755.2	610.2	535.4	459.6	356.3	366.7	487.0	540.1	697.4	569.5
80°	573.3	588.4	542.9	481.3	409.3	289.0	281.4	355.3	383.7	448.2	370.5
82.5°	402.7	411.2	449.1	393.2	338.3	227.4	207.5	250.1	267.2	294.7	199.9
85°	277.6	268.2	307.9	273.8	244.5	151.6	142.1	169.6	180.0	182.9	103.3
87.5°	166.8	166.8	178.1	146.9	131.7	78.6	76.7	96.6	103.3	98.5	56.9
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°	5345.0	5345.0	5345.0	5345.0	5345.0	5345.0	5345.0	5345.0	5345.0	5345.0	5345.0
2.5°	5359.2	5291.9	5148.9	5034.2	4889.2	4738.6	4654.3	4564.2	4502.6	4458.1	4529.2
5°	5400.0	5262.6	4966.9	4686.5	4376.6	4054.5	3810.0	3582.6	3424.4	3325.8	3418.7
7.5°	5464.4	5253.1	4782.2	4302.7	3746.5	3210.2	2730.8	2430.4	2255.1	2168.9	2222.9
10°	5538.3	5237.9	4565.2	3782.5	2986.6	2311.0	1952.9	1831.6	1791.8	1775.7	1783.2
12.5°	5599.9	5205.7	4298.9	3153.4	2242.8	1824.9	1721.7	1718.8	1727.3	1729.2	1732.1
15°	5643.5	5158.3	3903.8	2497.7	1793.7	1662.9	1657.2	1674.3	1690.4	1697.0	1700.8
17.5°	5672.8	5060.7	3457.5	1974.6	1607.0	1584.3	1597.5	1619.3	1636.4	1641.1	1644.9
20°	5670.0	4917.7	2926.0	1646.8	1505.6	1505.6	1528.4	1545.4	1546.4	1540.7	1543.5
22.5°	5640.6	4721.5	2410.5	1472.5	1415.6	1431.7	1454.5	1438.3	1372.0	1328.4	1331.3
25°	5591.4	4487.5	1969.0	1361.6	1332.2	1360.6	1354.0	1232.7	1138.0	1095.3	1095.3
27.5°	5547.8	4210.8	1629.7	1264.9	1248.8	1283.9	1166.4	1056.5	1016.7	996.8	990.2
30°	5516.5	3912.3	1403.3	1172.1	1170.2	1144.6	1012.0	981.6	975.0	958.9	953.2
32.5°	5524.1	3610.1	1258.3	1090.6	1097.2	979.7	938.1	944.7	939.0	921.9	914.4
35°	5586.6	3323.0	1163.6	1016.7	996.8	885.0	894.5	906.8	904.9	881.2	873.6
37.5°	5698.4	3051.0	1101.0	955.1	869.8	837.6	852.8	871.7	867.0	850.9	845.2
40°	5815.9	2795.2	1049.9	906.8	795.0	805.4	818.7	829.1	833.8	838.6	834.8
42.5°	5930.6	2528.0	987.3	857.5	763.7	775.1	780.8	791.2	816.8	834.8	833.8
45°	5998.8	2276.9	922.9	787.4	739.1	745.7	741.9	762.8	794.0	823.4	824.3
47.5°	6074.6	2081.7	871.7	723.0	715.4	720.1	708.8	729.6	758.0	794.0	797.8
50°	6166.5	1965.2	831.0	671.8	683.2	683.2	680.3	699.3	739.1	780.8	788.3
52.5°	6270.7	1942.4	796.9	634.8	651.0	650.0	652.8	681.3	724.9	765.6	772.2
55°	6397.7	2004.0	759.9	607.4	619.7	623.5	632.9	665.2	702.1	748.5	751.4
57.5°	6545.5	2129.1	730.5	585.6	591.3	603.6	618.7	648.1	687.9	739.1	741.9
58°	6570.2	2155.6	725.8	583.7	585.6	599.8	616.8	645.3	685.1	741.0	743.8
60°	6571.1	2243.7	715.4	575.1	563.8	587.5	606.4	634.8	680.3	747.6	754.2
62.5°	6338.0	2242.8	707.8	562.8	541.0	570.4	592.2	625.4	675.6	763.7	777.0
65°	5580.9	2038.1	671.8	543.9	523.0	555.3	579.9	618.7	688.9	833.8	842.4
67.5°	4365.3	1670.5	604.5	517.3	499.3	540.1	572.3	617.8	703.1	849.9	855.6
70°	2886.2	1249.8	530.6	487.0	474.7	522.1	576.1	650.0	687.0	815.8	800.7
72.5°	1498.0	877.4	470.9	449.1	446.3	506.0	631.1	646.2	670.8	767.5	748.5
75°	786.4	609.3	418.8	407.4	412.2	502.2	744.8	629.2	650.0	734.3	770.3
77.5°	481.3	491.8	374.3	369.5	379.0	490.8	743.8	607.4	619.7	675.6	715.4
80°	322.2	398.9	340.2	341.1	347.7	449.1	668.0	573.3	582.7	638.6	679.4
82.5°	203.7	235.9	308.9	325.0	316.5	370.5	567.6	522.1	535.4	730.5	772.2
85°	103.3	147.8	268.2	312.7	285.2	259.6	460.5	457.7	464.3	526.8	550.5
87.5°	47.4	81.5	209.4	272.9	215.1	162.0	334.5	339.2	365.7	374.3	374.3
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)