

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: P191360

Luminaire Tested: **GLEON-AF-02-LED-E1-T2-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191360
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-02-LED-E1-T2-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9877.6 lumens
Efficiency: N/A
Efficacy: 116.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Medium - Full Cutoff
BUG Rating: B2 - U0 - G2

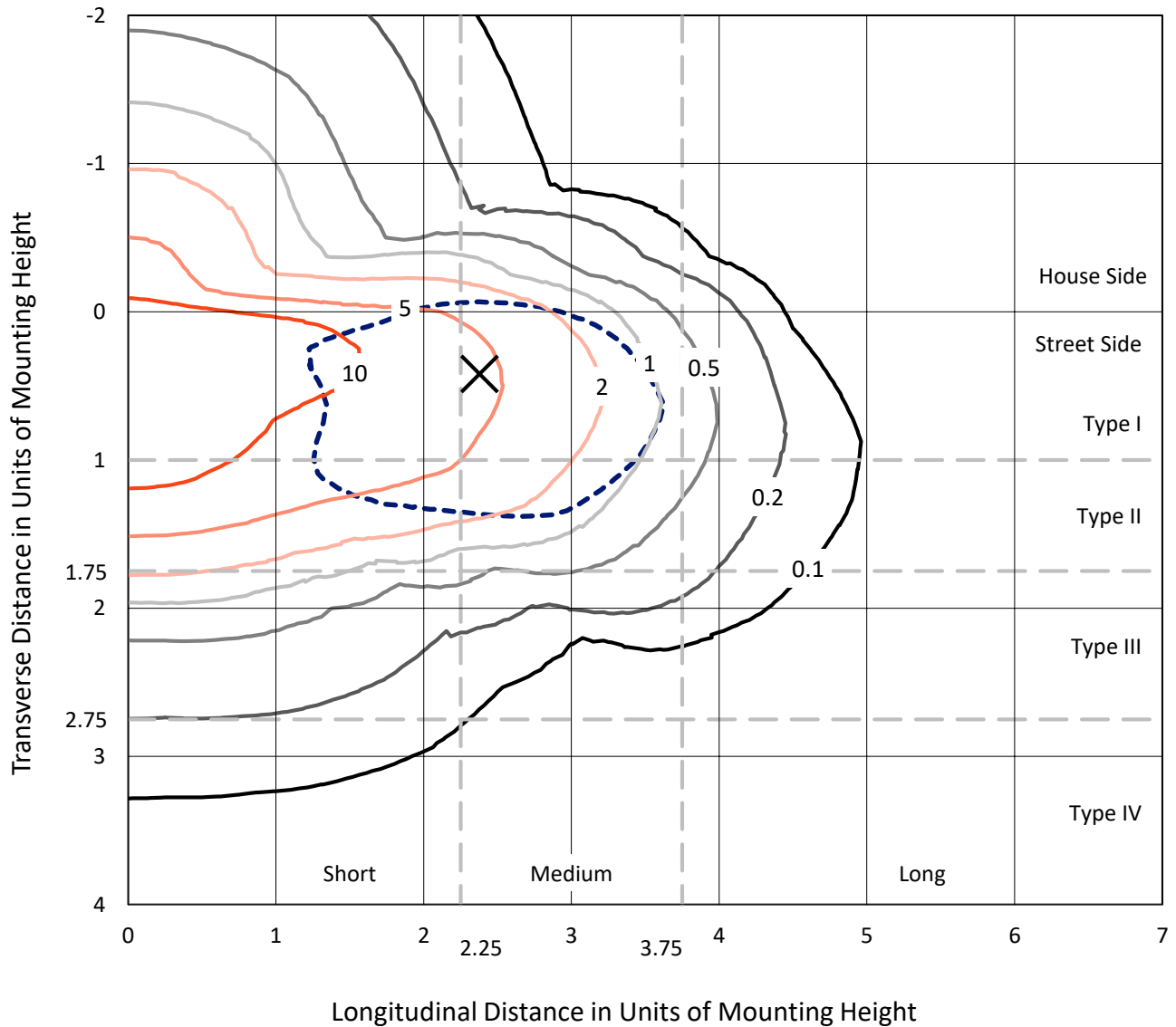
Input Watts (W): 85
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

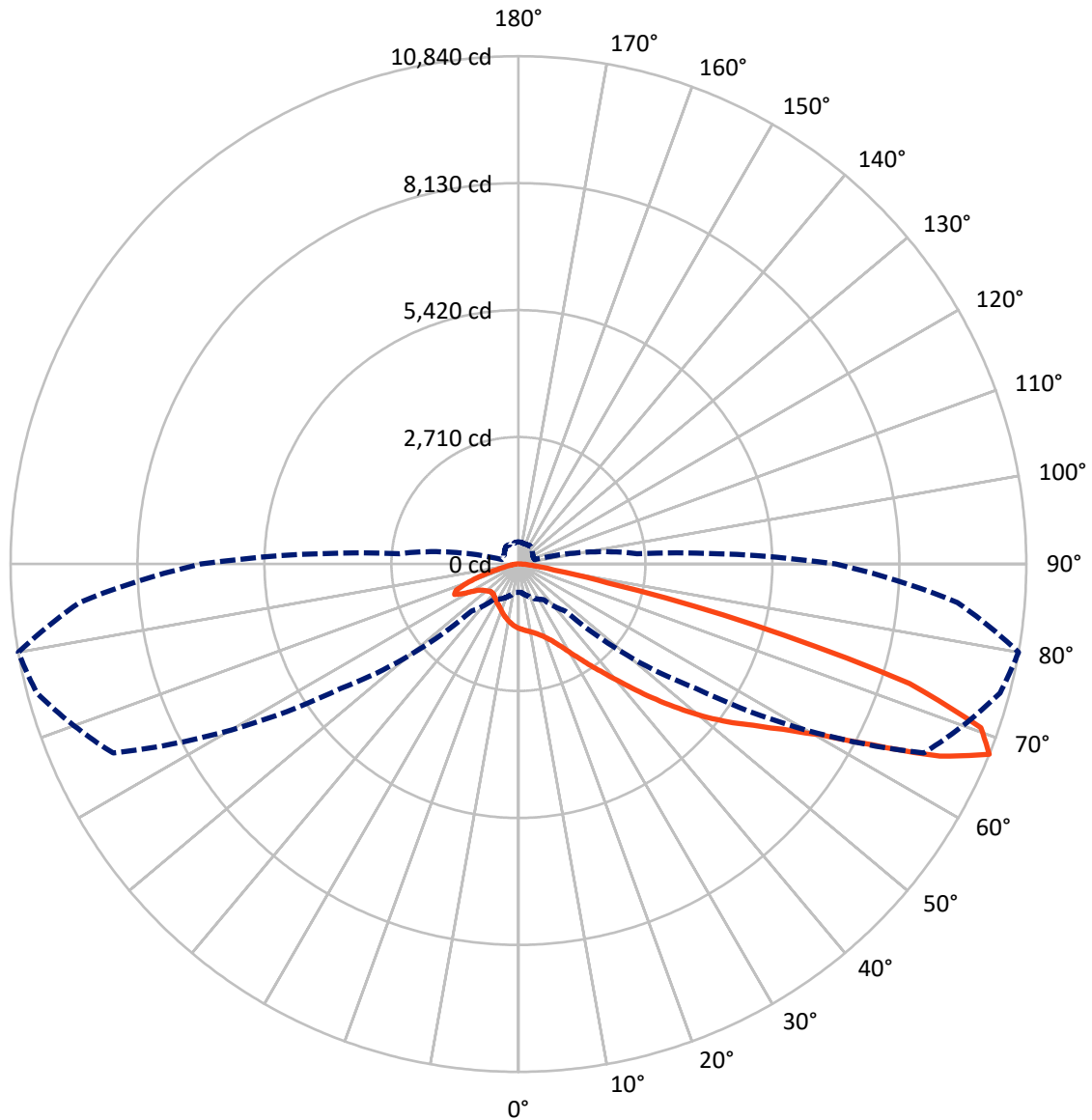
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 16.7 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	1819.1	0.0	1819.1
	% Fixture	18.4	0.0	18.4
Street Side	Lumens	8058.5	0.0	8058.5
	% Fixture	81.6	0.0	81.6
Total	Lumens	9877.6	0.0	9877.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	126.6	1.3
10°-20°	364.7	3.7
20°-30°	603.6	6.1
30°-40°	987.3	10.0
40°-50°	1594.1	16.1
50°-60°	2301.5	23.3
60°-70°	2539.8	25.7
70°-80°	1170.7	11.9
80°-90°	189.3	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°	9877.6	100.0
0°-180°	9877.6	100.0



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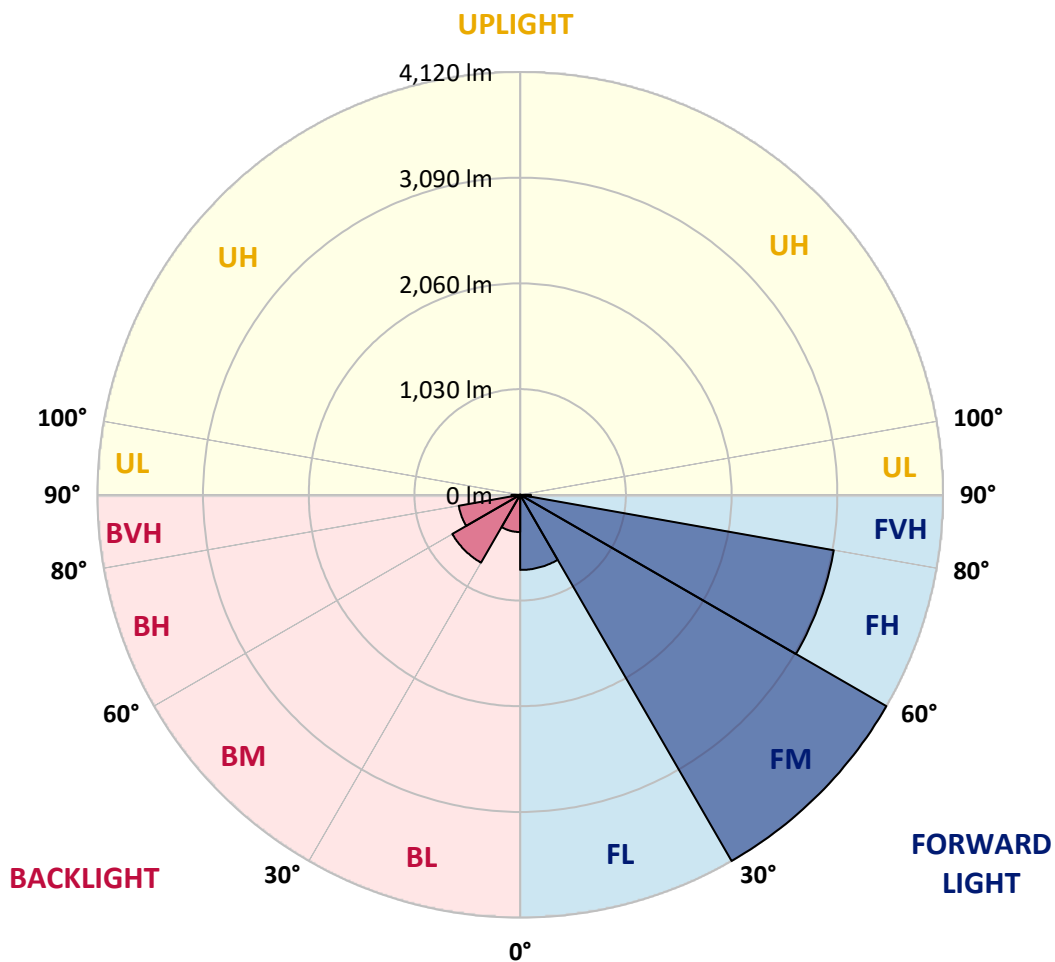
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	731.9	7.4			
FM (30°-60°)	4119.7	41.7			
FH (60°-80°)	3102.8	31.4			G2/5000
FVH (80°-90°)	104.1	1.1			G2/225
BL (0°-30°)	362.9	3.7	B1/500		
BM (30°-60°)	763.2	7.7	B1/1000		
BH (60°-80°)	607.7	6.2	B2/1000		G2/1000
BVH (80°-90°)	85.2	0.9			G1/100
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 Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	80°	85°
0°	1372.3	1372.3	1372.3	1372.3	1372.3	1372.3	1372.3	1372.3	1372.3	1372.3	1372.3
2.5°	1501.2	1492.4	1493.8	1491.5	1484.1	1471.5	1457.9	1433.1	1407.3	1393.7	1383.0
5°	1626.6	1624.1	1620.8	1613.0	1594.5	1568.3	1535.7	1491.9	1444.7	1420.0	1396.1
7.5°	1720.5	1719.0	1714.7	1709.8	1691.8	1660.1	1611.0	1548.8	1480.2	1446.2	1409.2
10°	1728.3	1730.6	1734.1	1747.2	1749.7	1732.6	1682.5	1607.2	1517.2	1473.5	1426.3
12.5°	1662.1	1667.4	1680.6	1714.2	1749.7	1770.5	1744.7	1668.4	1560.5	1507.5	1447.7
15°	1574.6	1577.5	1593.6	1639.8	1703.4	1768.2	1792.4	1736.0	1616.4	1551.2	1479.8
17.5°	1537.2	1538.6	1549.8	1580.5	1639.8	1732.2	1819.2	1809.5	1685.0	1605.7	1519.2
20°	1518.2	1521.5	1537.6	1567.8	1605.2	1685.9	1823.1	1888.7	1766.6	1673.8	1568.7
22.5°	1572.2	1570.7	1576.6	1591.6	1623.2	1671.8	1820.1	1970.4	1870.8	1761.3	1633.4
25°	1698.1	1703.4	1693.2	1676.2	1686.4	1720.5	1835.7	2058.9	2001.1	1873.6	1718.0
27.5°	1877.5	1872.2	1857.1	1817.3	1796.3	1810.9	1887.2	2154.2	2163.0	2021.5	1829.9
30°	2056.4	2052.1	2037.5	1988.9	1946.1	1934.0	1987.4	2263.7	2356.1	2198.9	1967.0
32.5°	2242.2	2237.4	2223.8	2175.1	2123.5	2095.4	2129.9	2390.1	2583.7	2411.0	2128.5
35°	2471.2	2462.0	2433.4	2365.8	2315.1	2293.4	2309.3	2549.1	2846.3	2661.9	2324.5
37.5°	2686.7	2700.8	2671.6	2578.2	2512.6	2504.8	2522.8	2743.1	3129.2	2942.5	2549.6
40°	2903.1	2905.5	2879.3	2802.9	2735.4	2722.7	2767.9	2978.5	3463.3	3278.0	2823.3
42.5°	3126.8	3131.7	3087.4	3016.9	2967.3	2969.7	3021.3	3254.2	3846.5	3673.4	3138.4
45°	3391.8	3399.1	3350.5	3258.1	3212.9	3303.8	3282.4	3563.4	4266.6	4122.7	3500.2
47.5°	3669.0	3680.2	3643.2	3556.7	3500.2	3625.2	3543.5	3906.3	4718.9	4604.6	3897.5
50°	3820.2	3836.3	3872.3	3865.9	3853.8	3832.9	3834.8	4273.9	5185.2	5106.5	4306.0
52.5°	3739.0	3738.6	3869.8	4029.3	4199.5	4212.2	4189.8	4661.5	5620.9	5597.1	4690.6
55°	3367.5	3392.8	3591.7	3900.5	4365.3	4655.7	4721.8	5105.4	6048.8	6076.5	5081.2
57.5°	2749.0	2769.8	3038.3	3468.6	4141.6	4919.3	5478.4	5750.7	6527.3	6656.8	5601.0
60°	1864.4	1889.7	2174.2	2691.1	3539.6	4772.4	6198.7	6902.3	7100.2	7394.4	6330.4
62.5°	1095.6	1118.5	1350.4	1697.6	2492.2	4090.2	6514.8	8540.6	8010.0	8507.5	7443.0
65°	754.2	769.8	882.6	1056.7	1432.1	2754.8	6122.8	9671.7	9410.0	9886.6	8733.1
67.5°	606.9	605.0	694.4	813.0	922.0	1420.5	4629.9	9543.7	10641.3	10840.2	9402.8
70°	499.9	498.0	558.7	656.9	736.7	799.9	2521.9	8053.8	10390.4	10471.1	8786.1
72.5°	418.2	420.1	459.1	532.0	604.5	602.5	1108.3	5665.7	8173.9	8732.2	7003.9
75°	353.0	354.0	379.8	431.4	490.7	485.3	601.1	3069.4	4751.5	5140.0	3882.5
77.5°	300.5	301.5	318.0	346.7	389.0	387.1	438.6	1326.1	1982.1	1957.7	1328.0
80°	267.9	267.9	275.7	281.1	304.4	295.6	325.3	637.0	837.9	773.7	530.1
82.5°	210.1	211.0	258.7	256.8	239.8	228.5	228.5	375.4	444.0	410.4	310.3
85°	118.2	117.6	166.8	201.3	211.0	160.9	159.5	210.1	241.7	213.0	150.3
87.5°	50.5	51.6	77.3	89.5	119.6	100.1	98.7	108.4	123.1	106.5	69.6
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°	1372.3	1372.3	1372.3	1372.3	1372.3	1372.3	1372.3	1372.3	1372.3	1372.3	1372.3
2.5°	1372.8	1360.1	1332.4	1297.9	1266.7	1246.4	1227.8	1201.1	1202.6	1184.1	1170.5
5°	1371.8	1345.6	1281.3	1205.0	1131.6	1078.6	1038.7	1002.7	994.0	976.9	966.7
7.5°	1372.8	1329.9	1222.0	1100.0	1009.0	941.9	907.9	888.9	884.5	878.7	879.2
10°	1376.2	1315.9	1156.9	1001.8	906.4	862.1	854.0	859.8	866.5	868.5	869.0
12.5°	1384.0	1303.2	1085.4	914.2	842.2	828.6	842.7	862.7	875.7	882.1	881.6
15°	1401.4	1293.5	1016.8	845.7	806.7	814.1	840.3	868.5	887.5	896.2	896.7
17.5°	1420.5	1279.4	946.3	793.1	780.5	798.9	831.6	864.6	887.9	897.6	899.6
20°	1445.2	1261.9	872.4	753.7	755.7	776.6	807.2	840.3	866.0	874.3	878.2
22.5°	1477.9	1243.0	807.7	721.7	727.5	743.5	767.3	796.1	818.5	822.4	825.7
25°	1521.5	1222.5	756.2	692.4	694.9	704.1	720.2	737.2	752.8	748.4	751.8
27.5°	1580.5	1205.0	717.7	665.7	661.3	663.3	671.6	676.9	685.2	673.0	674.4
30°	1649.5	1186.0	688.1	642.4	630.2	626.9	628.8	631.7	638.0	621.4	619.0
32.5°	1729.7	1163.2	660.4	622.0	605.0	598.1	599.1	606.9	631.2	620.9	615.6
35°	1823.1	1137.4	631.2	599.6	587.9	578.2	577.3	601.5	674.0	667.7	662.8
37.5°	1932.5	1111.6	602.0	574.3	575.3	564.6	561.2	588.9	682.2	657.5	654.1
40°	2071.6	1098.0	577.3	547.6	559.8	558.2	551.5	565.6	627.8	582.6	576.7
42.5°	2243.7	1100.0	558.7	518.8	541.2	556.8	546.1	546.6	569.0	534.9	529.6
45°	2456.2	1122.8	545.6	496.0	520.3	555.4	544.1	536.3	538.3	520.3	517.4
47.5°	2704.2	1169.9	536.3	477.0	500.4	549.9	543.7	533.5	529.1	519.4	516.9
50°	2980.0	1238.6	529.6	459.1	482.4	541.2	544.1	530.5	525.7	521.8	520.3
52.5°	3250.8	1316.8	519.4	443.4	468.3	530.5	545.6	527.6	522.2	519.4	517.9
55°	3552.8	1414.6	503.8	430.4	456.6	516.9	545.6	523.2	517.4	517.9	517.4
57.5°	3960.8	1572.7	485.3	419.2	442.5	500.4	536.3	518.3	511.1	511.6	512.1
60°	4598.3	1851.2	463.0	408.0	425.0	480.9	523.8	507.7	500.4	502.4	502.8
62.5°	5535.8	2260.2	433.7	391.5	406.5	460.0	506.3	494.1	486.7	491.6	491.6
65°	6510.4	2621.1	397.8	370.5	387.1	437.2	484.4	477.0	469.7	480.9	480.5
67.5°	6772.4	2540.3	361.8	347.7	367.6	411.8	458.1	454.2	450.3	469.7	468.8
70°	6016.3	2039.5	328.8	324.4	346.3	384.6	429.8	429.8	427.5	442.0	438.6
72.5°	4583.7	1446.2	297.2	299.5	321.9	355.0	399.3	402.6	398.7	406.0	403.1
75°	2453.8	827.7	265.6	272.3	291.7	324.8	365.2	368.6	366.2	365.7	367.1
77.5°	815.5	404.6	232.4	243.2	260.1	293.7	329.7	335.0	329.2	328.3	327.8
80°	363.2	254.3	196.0	210.1	225.2	258.2	292.3	296.7	290.3	299.1	287.9
82.5°	233.4	167.3	157.0	172.7	187.2	222.7	254.8	255.7	249.9	290.3	247.6
85°	113.3	103.6	118.2	132.3	145.0	175.0	211.0	211.5	196.9	179.4	173.1
87.5°	56.4	60.3	78.8	91.5	97.7	120.1	153.6	150.8	144.4	131.3	121.1
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)