

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: P192160

Luminaire Tested: **GLEON-AF-02-LED-E1-T2-7050-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192160
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-T2-7050-800
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 5000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9656 lumens
Efficiency: N/A
Efficacy: 113.6 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

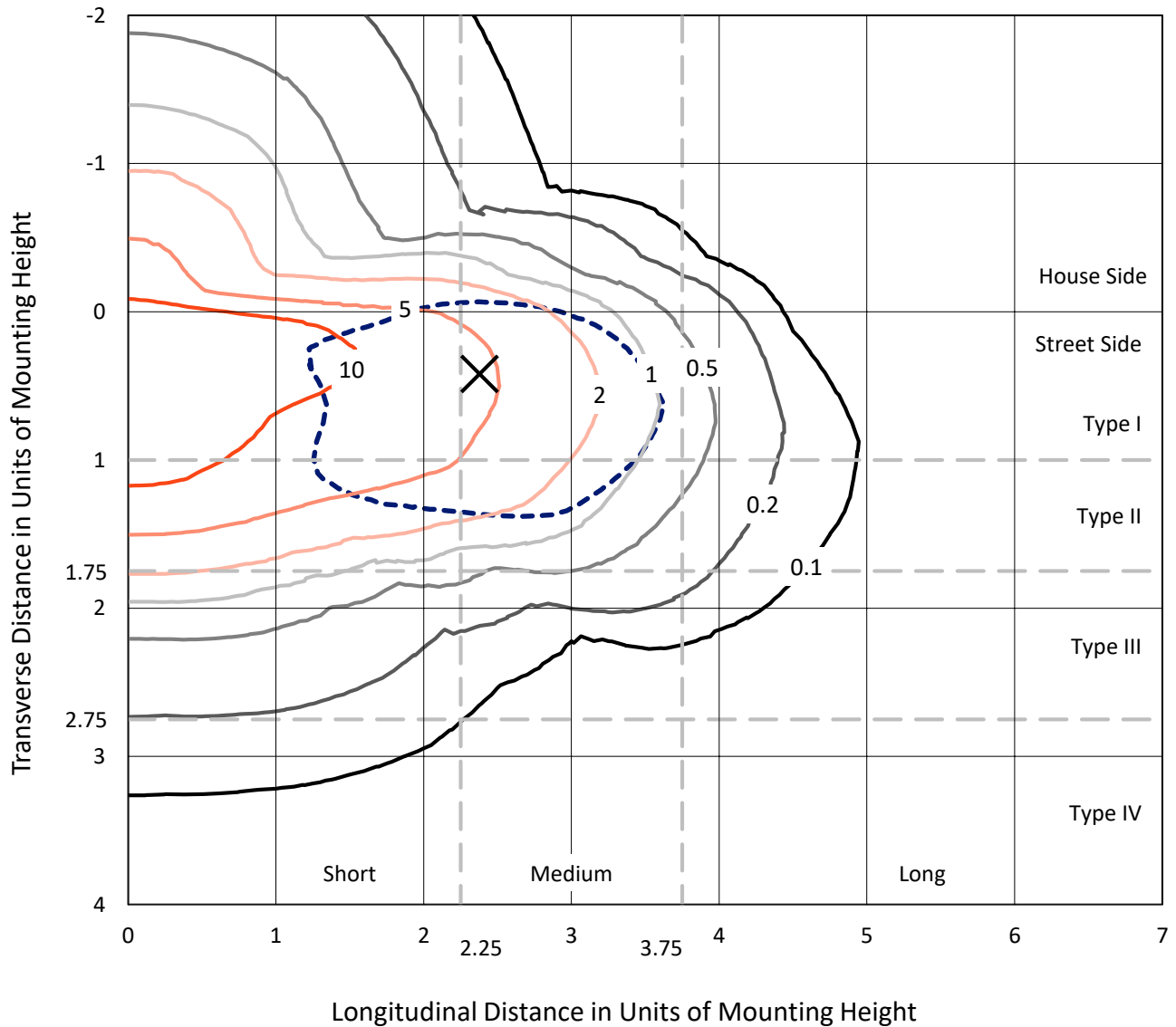
Input Watts (W): 85
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

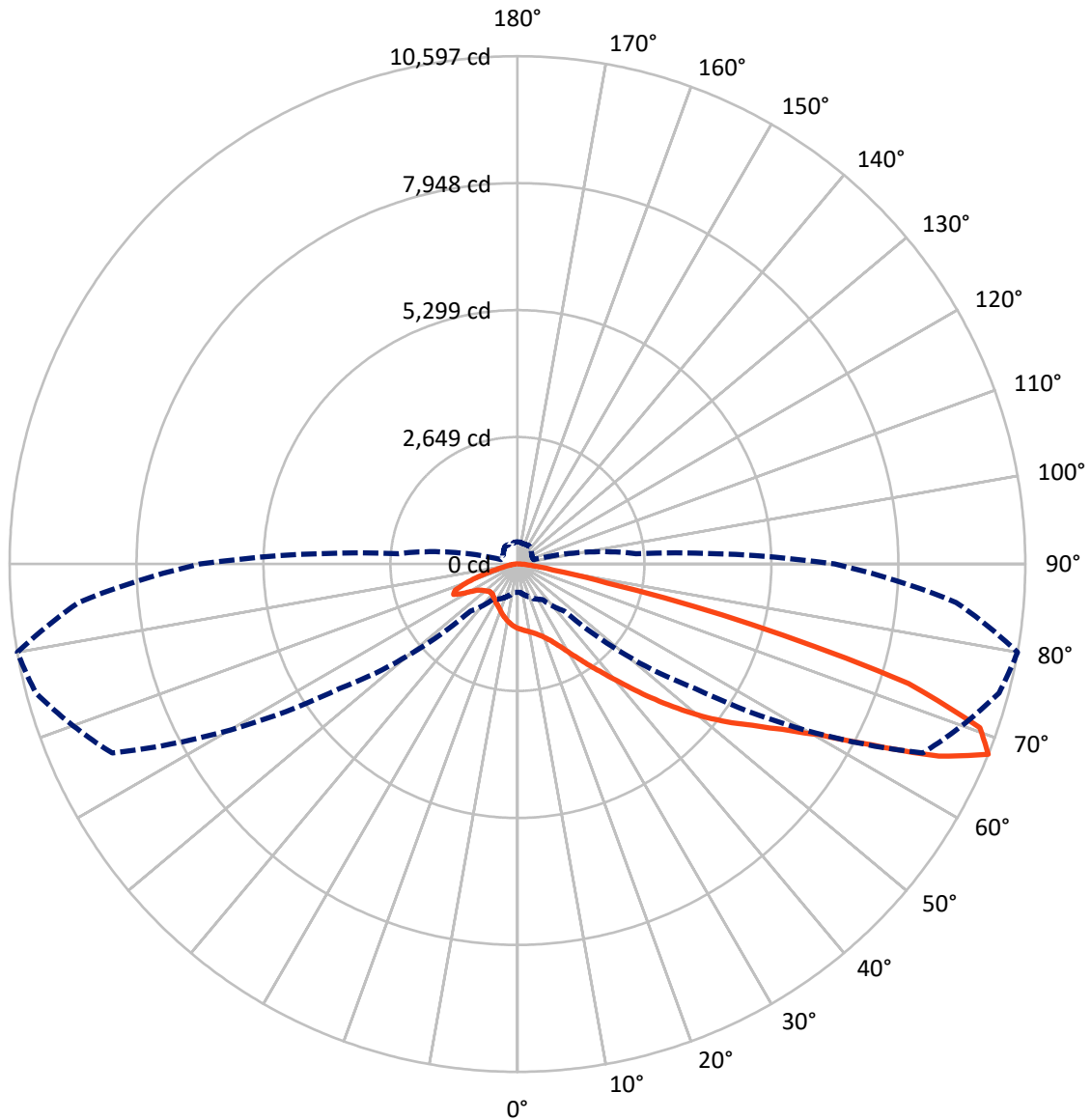
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 16.3 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	1778.3	0.0	1778.3
	% Fixture	18.4	0.0	18.4
Street Side	Lumens	7877.7	0.0	7877.7
	% Fixture	81.6	0.0	81.6
Total	Lumens	9656.0	0.0	9656.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	123.7	1.3
10°-20°	356.5	3.7
20°-30°	590.1	6.1
30°-40°	965.2	10.0
40°-50°	1558.4	16.1
50°-60°	2249.8	23.3
60°-70°	2482.8	25.7
70°-80°	1144.4	11.9
80°-90°	185.1	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°	9656.0	100.0
0°-180°	9656.0	100.0

Coefficient of Utilization



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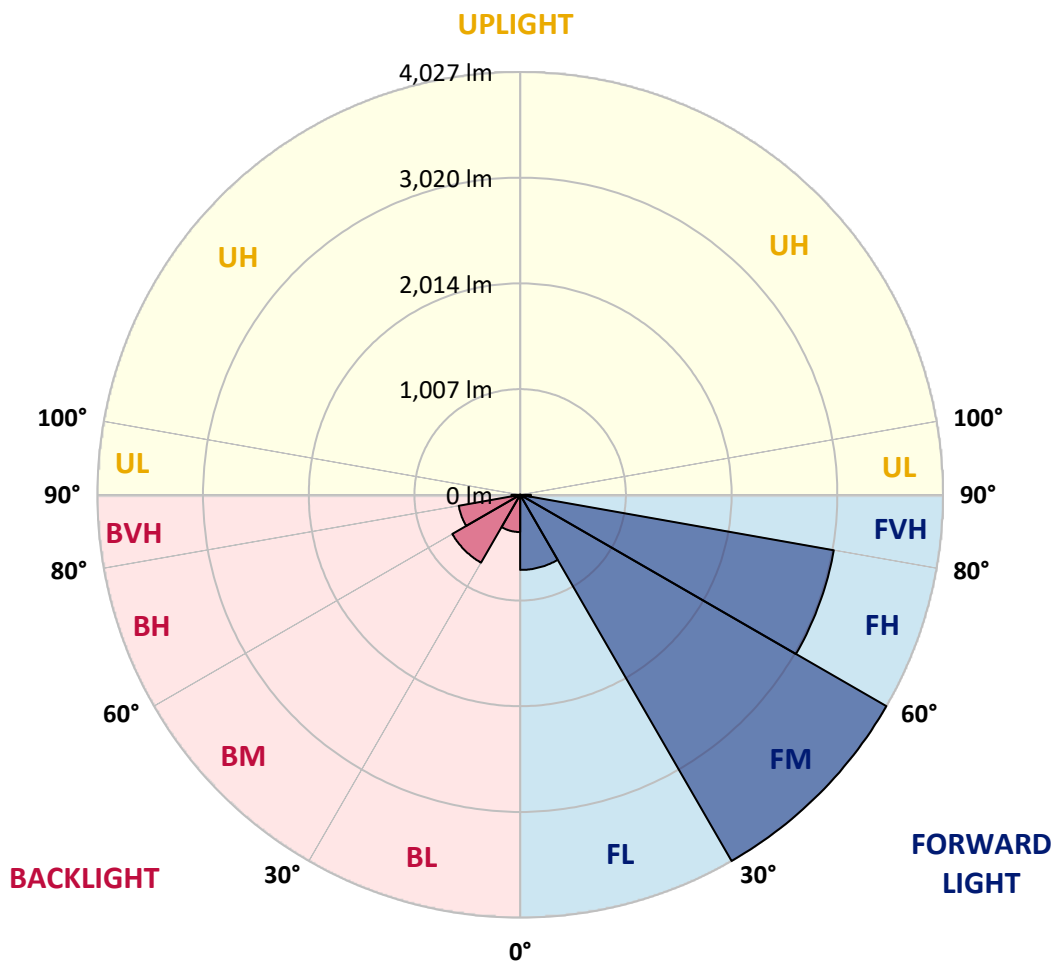
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	715.5	7.4			
FM	(30°-60°)	4027.3	41.7			
FH	(60°-80°)	3033.2	31.4			G2/5000
FVH	(80°-90°)	101.8	1.1			G2/225
BL	(0°-30°)	354.8	3.7	B1/500		
BM	(30°-60°)	746.1	7.7	B1/1000		
BH	(60°-80°)	594.0	6.2	B2/1000		G2/1000
BVH	(80°-90°)	83.3	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°	1341.5	1341.5	1341.5	1341.5	1341.5	1341.5	1341.5	1341.5	1341.5	1341.5	1341.5
2.5°	1467.5	1458.9	1460.3	1458.0	1450.8	1438.5	1425.2	1400.9	1375.7	1362.4	1352.0
5°	1590.1	1587.7	1584.4	1576.8	1558.7	1533.1	1501.2	1458.4	1412.3	1388.1	1364.8
7.5°	1681.9	1680.4	1676.2	1671.4	1653.8	1622.9	1574.9	1514.1	1447.0	1413.8	1377.6
10°	1689.5	1691.8	1695.2	1708.0	1710.4	1693.7	1644.8	1571.1	1483.2	1440.4	1394.3
12.5°	1624.8	1630.0	1642.9	1675.7	1710.4	1730.8	1705.6	1631.0	1525.5	1473.7	1415.2
15°	1539.3	1542.1	1557.8	1603.0	1665.2	1728.5	1752.2	1697.1	1580.1	1516.4	1446.6
17.5°	1502.7	1504.1	1515.0	1545.0	1603.0	1693.3	1778.4	1768.9	1647.2	1569.7	1485.1
20°	1484.1	1487.4	1503.1	1532.6	1569.2	1648.1	1782.2	1846.3	1727.0	1636.2	1533.5
22.5°	1536.9	1535.5	1541.2	1555.9	1586.8	1634.3	1779.3	1926.2	1828.8	1721.8	1596.8
25°	1660.0	1665.2	1655.2	1638.6	1648.6	1681.9	1794.5	2012.7	1956.2	1831.6	1679.5
27.5°	1835.4	1830.2	1815.4	1776.5	1756.0	1770.3	1844.9	2105.9	2114.5	1976.1	1788.8
30°	2010.3	2006.1	1991.8	1944.3	1902.4	1890.6	1942.8	2212.9	2303.2	2149.6	1922.9
32.5°	2191.9	2187.2	2173.9	2126.3	2075.9	2048.4	2082.1	2336.5	2525.7	2356.9	2080.7
35°	2415.8	2406.8	2378.8	2312.7	2263.2	2241.9	2257.5	2491.9	2782.4	2602.2	2272.3
37.5°	2626.4	2640.2	2611.7	2520.4	2456.2	2448.6	2466.2	2681.6	3059.0	2876.5	2492.4
40°	2838.0	2840.3	2814.7	2740.0	2674.0	2661.6	2705.8	2911.7	3385.6	3204.5	2760.0
42.5°	3056.6	3061.4	3018.1	2949.2	2900.7	2903.1	2953.5	3181.2	3760.2	3591.0	3068.0
45°	3315.7	3322.8	3275.3	3185.0	3140.8	3229.7	3208.8	3483.5	4170.9	4030.2	3421.7
47.5°	3586.7	3597.6	3561.5	3476.9	3421.7	3543.9	3464.0	3818.7	4613.0	4501.3	3810.1
50°	3734.5	3750.2	3785.4	3779.2	3767.3	3746.9	3748.8	4178.0	5068.9	4991.9	4209.4
52.5°	3655.1	3654.7	3783.0	3938.9	4105.3	4117.7	4095.8	4556.9	5494.8	5471.5	4585.4
55°	3291.9	3316.7	3511.1	3813.0	4267.4	4551.2	4615.9	4990.9	5913.1	5940.2	4967.2
57.5°	2687.3	2707.7	2970.1	3390.8	4048.7	4808.9	5355.5	5621.7	6380.9	6507.4	5475.3
60°	1822.6	1847.3	2125.4	2630.7	3460.2	4665.3	6059.6	6747.4	6940.9	7228.5	6188.4
62.5°	1071.0	1093.4	1320.1	1659.5	2436.3	3998.4	6368.6	8349.0	7830.3	8316.6	7276.0
65°	737.3	752.5	862.8	1033.0	1400.0	2693.0	5985.4	9454.7	9198.9	9664.8	8537.2
67.5°	593.3	591.4	678.8	794.8	901.3	1388.6	4526.0	9329.6	10402.6	10597.0	9191.8
70°	488.7	486.8	546.2	642.2	720.2	782.0	2465.3	7873.1	10157.3	10236.2	8589.0
72.5°	408.8	410.7	448.8	520.1	590.9	589.0	1083.4	5538.6	7990.5	8536.3	6846.8
75°	345.1	346.1	371.3	421.7	479.7	474.4	587.6	3000.5	4644.9	5024.7	3795.4
77.5°	293.8	294.7	310.9	338.9	380.3	378.4	428.8	1296.3	1937.6	1913.8	1298.2
80°	261.9	261.9	269.5	274.8	297.6	289.0	318.0	622.7	819.1	756.3	518.2
82.5°	205.4	206.3	252.9	251.0	234.4	223.4	223.4	367.0	434.0	401.2	303.3
85°	115.5	115.0	163.1	196.8	206.3	157.3	155.9	205.4	236.3	208.2	146.9
87.5°	49.4	50.4	75.6	87.5	116.9	97.9	96.5	106.0	120.3	104.1	68.0
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°	1341.5	1341.5	1341.5	1341.5	1341.5	1341.5	1341.5	1341.5	1341.5	1341.5	1341.5
2.5°	1342.0	1329.6	1302.5	1268.8	1238.3	1218.4	1200.3	1174.2	1175.6	1157.5	1144.2
5°	1341.0	1315.4	1252.6	1178.0	1106.2	1054.4	1015.4	980.2	971.7	955.0	945.0
7.5°	1342.0	1300.1	1194.6	1075.3	986.4	920.8	887.5	869.0	864.7	859.0	859.5
10°	1345.3	1286.4	1130.9	979.3	886.1	842.8	834.8	840.5	847.1	849.0	849.5
12.5°	1352.9	1274.0	1061.0	893.7	823.3	810.0	823.8	843.3	856.1	862.3	861.8
15°	1370.0	1264.5	994.0	826.7	788.6	795.8	821.4	849.0	867.6	876.1	876.6
17.5°	1388.6	1250.7	925.1	775.3	763.0	781.0	812.9	845.2	868.0	877.5	879.4
20°	1412.8	1233.6	852.8	736.8	738.7	759.2	789.1	821.4	846.6	854.7	858.5
22.5°	1444.7	1215.1	789.6	705.5	711.2	726.8	750.1	778.2	800.1	803.9	807.2
25°	1487.4	1195.1	739.2	676.9	679.3	688.3	704.0	720.7	735.9	731.6	734.9
27.5°	1545.0	1178.0	701.6	650.8	646.5	648.4	656.5	661.7	669.8	657.9	659.3
30°	1612.5	1159.4	672.7	628.0	616.1	612.8	614.7	617.5	623.7	607.5	605.1
32.5°	1690.9	1137.1	645.6	608.0	591.4	584.7	585.7	593.3	617.0	607.0	601.8
35°	1782.2	1111.9	617.0	586.1	574.7	565.2	564.3	588.0	658.9	652.7	647.9
37.5°	1889.1	1086.7	588.5	561.4	562.4	551.9	548.6	575.7	666.9	642.7	639.4
40°	2025.1	1073.4	564.3	535.3	547.2	545.7	539.1	552.9	613.7	569.5	563.8
42.5°	2193.4	1075.3	546.2	507.2	529.1	544.3	533.8	534.3	556.2	522.9	517.7
45°	2401.1	1097.6	533.4	484.9	508.6	542.9	531.9	524.3	526.2	508.6	505.8
47.5°	2643.5	1143.7	524.3	466.3	489.2	537.6	531.5	521.5	517.2	507.7	505.3
50°	2913.1	1210.8	517.7	448.8	471.6	529.1	531.9	518.6	513.9	510.1	508.6
52.5°	3177.9	1287.3	507.7	433.5	457.8	518.6	533.4	515.8	510.5	507.7	506.3
55°	3473.1	1382.9	492.5	420.7	446.4	505.3	533.4	511.5	505.8	506.3	505.8
57.5°	3871.9	1537.4	474.4	409.8	432.6	489.2	524.3	506.7	499.6	500.1	500.6
60°	4495.1	1809.7	452.6	398.8	415.5	470.1	512.0	496.3	489.2	491.1	491.5
62.5°	5411.6	2209.5	424.0	382.7	397.4	449.7	494.9	483.0	475.8	480.6	480.6
65°	6364.3	2562.3	388.9	362.2	378.4	427.4	473.5	466.3	459.2	470.1	469.7
67.5°	6620.5	2483.3	353.7	339.9	359.4	402.6	447.8	444.0	440.2	459.2	458.3
70°	5881.3	1993.7	321.4	317.1	338.5	376.0	420.2	420.2	417.9	432.1	428.8
72.5°	4480.9	1413.8	290.5	292.8	314.7	347.0	390.3	393.6	389.8	396.9	394.1
75°	2398.7	809.1	259.6	266.2	285.2	317.5	357.0	360.3	358.0	357.5	358.9
77.5°	797.2	395.5	227.2	237.7	254.3	287.1	322.3	327.5	321.8	320.9	320.4
80°	355.1	248.6	191.6	205.4	220.1	252.4	285.7	290.0	283.8	292.4	281.4
82.5°	228.2	163.5	153.5	168.8	183.0	217.7	249.1	250.0	244.3	283.8	242.0
85°	110.8	101.3	115.5	129.3	141.7	171.1	206.3	206.8	192.5	175.4	169.2
87.5°	55.1	58.9	77.0	89.4	95.5	117.4	150.2	147.4	141.2	128.4	118.4
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)