

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: P193891

Luminaire Tested: **GLEON-AF-03-LED-E1-T2-8030-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193891
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-03-LED-E1-T2-8030-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9587 lumens
Efficiency: N/A
Efficacy: 99.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium - Full Cutoff
BUG Rating: B2 - U0 - G2

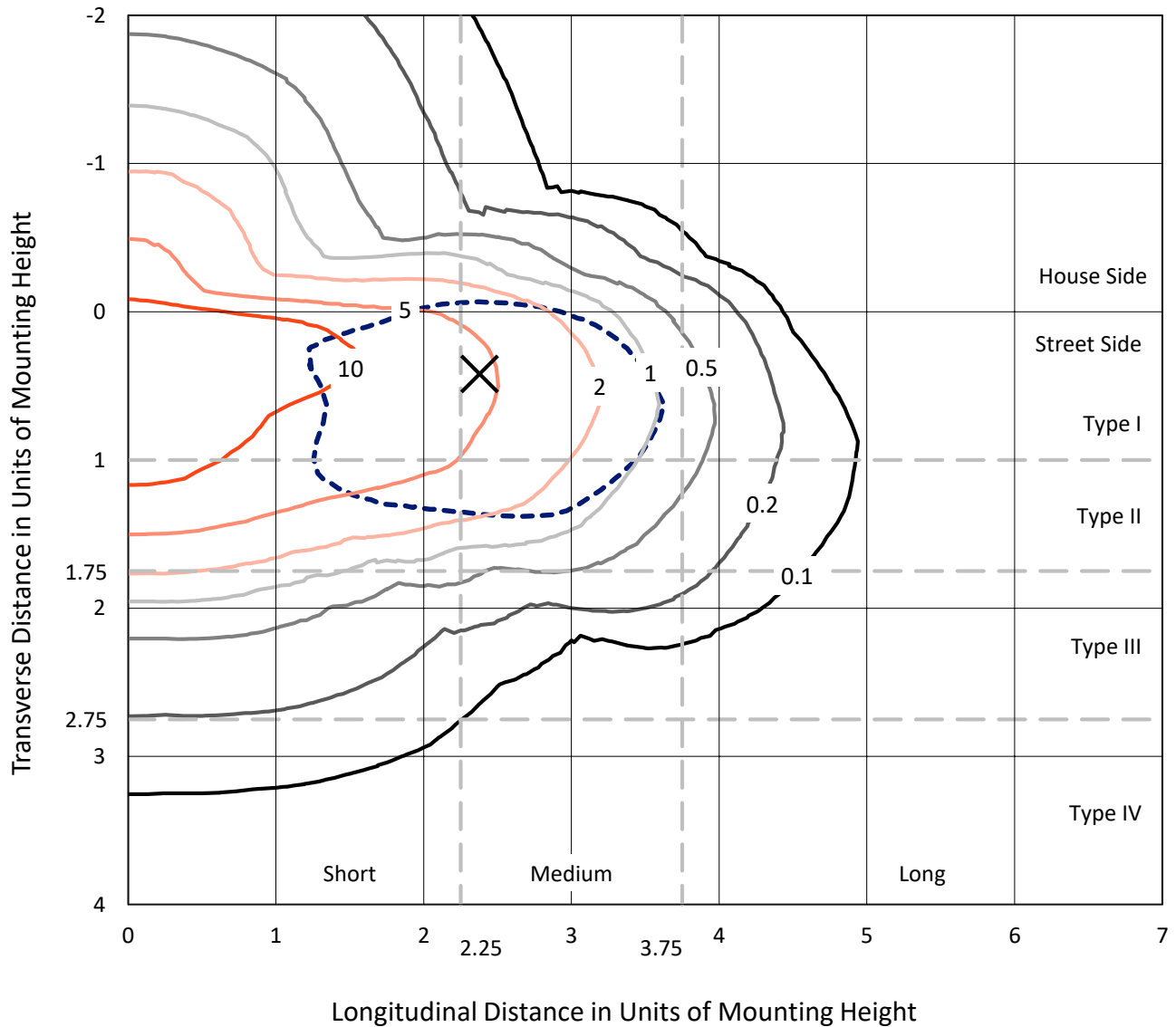
Input Watts (W): 96
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P193891
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Iso-Footcandle Lines of Horizontal Illumination

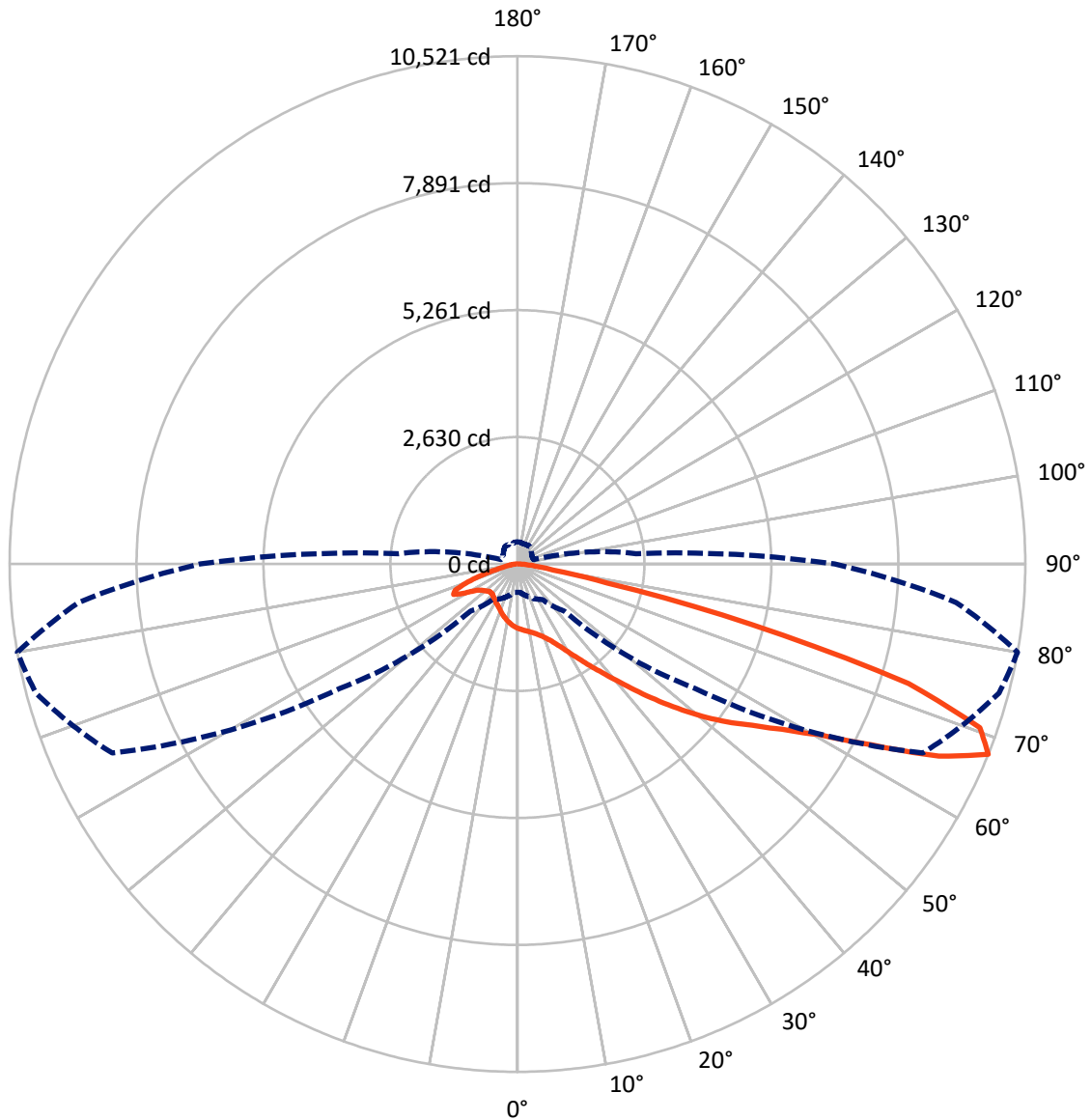
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 16.2 fc
 Type II - Medium - Full Cutoff

REPORT NUMBER: P193891
CATALOG NUMBER: GLEON-AF-03-LED-E1-T2-8030-600

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	1765.6	0.0	1765.6
	% Fixture	18.4	0.0	18.4
Street Side	Lumens	7821.4	0.0	7821.4
	% Fixture	81.6	0.0	81.6
Total	Lumens	9587.0	0.0	9587.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	122.9	1.3
10°-20°	353.9	3.7
20°-30°	585.8	6.1
30°-40°	958.3	10.0
40°-50°	1547.2	16.1
50°-60°	2233.8	23.3
60°-70°	2465.1	25.7
70°-80°	1136.3	11.9
80°-90°	183.8	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°	9587.0	100.0
0°-180°	9587.0	100.0



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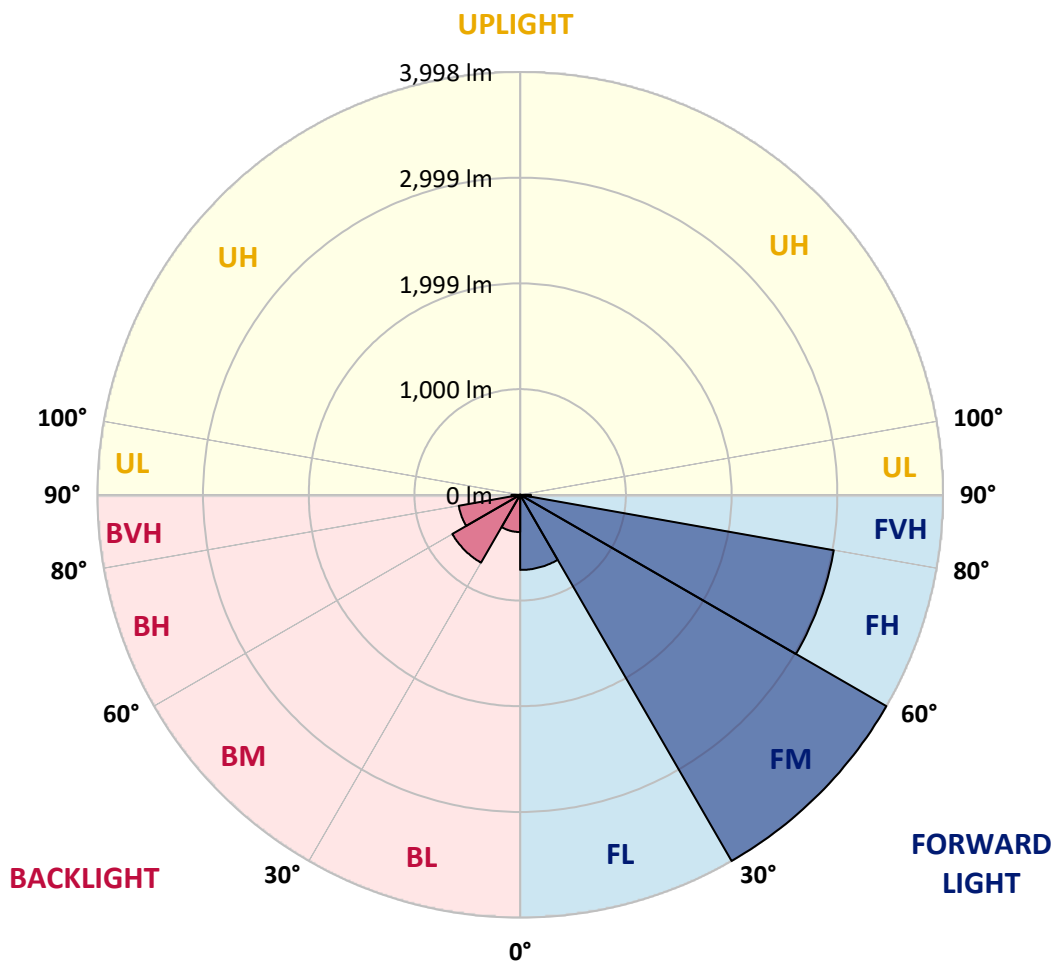
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	710.4	7.4			
FM (30°-60°)	3998.5	41.7			
FH (60°-80°)	3011.5	31.4			G2/5000
FVH (80°-90°)	101.0	1.1			G2/225
BL (0°-30°)	352.3	3.7	B1/500		
BM (30°-60°)	740.8	7.7	B1/1000		
BH (60°-80°)	589.8	6.2	B2/1000		G2/1000
BVH (80°-90°)	82.7	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





REPORT NUMBER: P193891

CATALOG NUMBER: GLEON-AF-03-LED-E1-T2-8030-600

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	80°	85°
0°	1331.9	1331.9	1331.9	1331.9	1331.9	1331.9	1331.9	1331.9	1331.9	1331.9	1331.9
2.5°	1457.0	1448.5	1449.9	1447.5	1440.5	1428.2	1415.0	1390.9	1365.9	1352.7	1342.3
5°	1578.8	1576.4	1573.1	1565.5	1547.6	1522.1	1490.5	1448.0	1402.2	1378.2	1355.0
7.5°	1669.8	1668.4	1664.2	1659.5	1642.0	1611.3	1563.7	1503.2	1436.7	1403.7	1367.8
10°	1677.4	1679.8	1683.1	1695.8	1698.2	1681.6	1633.0	1559.9	1472.6	1430.1	1384.3
12.5°	1613.2	1618.4	1631.1	1663.7	1698.2	1718.5	1693.4	1619.3	1514.6	1463.1	1405.1
15°	1528.3	1531.1	1546.7	1591.5	1653.3	1716.1	1739.7	1685.0	1568.8	1505.6	1436.2
17.5°	1491.9	1493.3	1504.2	1533.9	1591.5	1681.2	1765.7	1756.2	1635.4	1558.5	1474.4
20°	1473.5	1476.8	1492.4	1521.6	1558.0	1636.3	1769.4	1833.2	1714.7	1624.5	1522.6
22.5°	1525.9	1524.5	1530.1	1544.8	1575.5	1622.6	1766.6	1912.4	1815.7	1709.5	1585.4
25°	1648.1	1653.3	1643.4	1626.9	1636.8	1669.8	1781.7	1998.3	1942.2	1818.5	1667.5
27.5°	1822.3	1817.1	1802.5	1763.8	1743.5	1757.6	1831.7	2090.8	2099.3	1962.0	1776.0
30°	1996.0	1991.7	1977.6	1930.4	1888.8	1877.0	1929.0	2197.0	2286.7	2134.3	1909.1
32.5°	2176.3	2171.6	2158.3	2111.1	2061.1	2033.7	2067.3	2319.8	2507.6	2340.1	2065.8
35°	2398.6	2389.6	2361.8	2296.2	2247.1	2225.8	2241.4	2474.1	2762.5	2583.6	2256.0
37.5°	2607.7	2621.3	2593.0	2502.4	2438.7	2431.1	2448.6	2662.4	3037.2	2855.9	2474.6
40°	2817.7	2820.0	2794.6	2720.5	2654.9	2642.6	2686.5	2890.8	3361.4	3181.6	2740.3
42.5°	3034.8	3039.5	2996.6	2928.1	2880.0	2882.4	2932.4	3158.5	3733.3	3565.3	3046.1
45°	3292.0	3299.1	3251.9	3162.2	3118.3	3206.6	3185.8	3458.6	4141.1	4001.4	3397.3
47.5°	3561.1	3571.9	3536.0	3452.0	3397.3	3518.6	3439.3	3791.4	4580.0	4469.1	3782.9
50°	3707.8	3723.4	3758.3	3752.2	3740.4	3720.1	3722.0	4148.2	5032.7	4956.2	4179.3
52.5°	3629.0	3628.5	3756.0	3910.8	4076.0	4088.2	4066.5	4524.4	5455.6	5432.4	4552.7
55°	3268.4	3293.0	3486.0	3785.7	4236.9	4518.7	4582.9	4955.3	5870.9	5897.8	4931.7
57.5°	2668.1	2688.4	2948.9	3366.6	4019.8	4774.5	5317.3	5581.6	6335.3	6460.9	5436.2
60°	1809.6	1834.1	2110.2	2611.9	3435.5	4632.0	6016.3	6699.2	6891.3	7176.9	6144.2
62.5°	1063.4	1085.5	1310.7	1647.7	2418.9	3969.8	6323.0	8289.3	7774.4	8257.2	7224.0
65°	732.0	747.1	856.6	1025.6	1390.0	2673.7	5942.6	9387.1	9133.2	9595.7	8476.2
67.5°	589.0	587.1	674.0	789.1	894.9	1378.6	4493.7	9263.0	10328.2	10521.3	9126.1
70°	485.2	483.3	542.3	637.6	715.0	776.4	2447.7	7816.8	10084.7	10163.0	8527.6
72.5°	405.9	407.8	445.5	516.3	586.7	584.8	1075.6	5499.0	7933.4	8475.3	6797.9
75°	342.7	343.6	368.6	418.6	476.2	471.0	583.4	2979.1	4611.7	4988.8	3768.2
77.5°	291.7	292.6	308.7	336.5	377.6	375.7	425.7	1287.1	1923.8	1900.2	1289.0
80°	260.1	260.1	267.6	272.8	295.5	287.0	315.8	618.3	813.2	750.9	514.5
82.5°	203.9	204.8	251.1	249.2	232.7	221.8	221.8	364.4	430.9	398.3	301.1
85°	114.7	114.2	161.9	195.4	204.8	156.2	154.8	203.9	234.6	206.7	145.8
87.5°	49.1	50.0	75.0	86.8	116.1	97.2	95.8	105.3	119.4	103.4	67.5
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°	1331.9	1331.9	1331.9	1331.9	1331.9	1331.9	1331.9	1331.9	1331.9	1331.9	1331.9
2.5°	1332.4	1320.1	1293.2	1259.7	1229.5	1209.7	1191.7	1165.8	1167.2	1149.3	1136.0
5°	1331.4	1306.0	1243.7	1169.6	1098.3	1046.8	1008.1	973.2	964.7	948.2	938.3
7.5°	1332.4	1290.9	1186.1	1067.6	979.3	914.2	881.2	862.8	858.5	852.9	853.3
10°	1335.7	1277.2	1122.8	972.3	879.8	836.8	828.8	834.5	841.1	842.9	843.4
12.5°	1343.2	1264.9	1053.4	887.3	817.5	804.2	817.9	837.3	850.0	856.2	855.7
15°	1360.2	1255.5	986.9	820.8	783.0	790.1	815.6	842.9	861.4	869.8	870.3
17.5°	1378.6	1241.8	918.5	769.8	757.5	775.5	807.1	839.2	861.8	871.3	873.2
20°	1402.7	1224.8	846.7	731.6	733.4	753.7	783.5	815.6	840.6	848.6	852.4
22.5°	1434.3	1206.4	784.0	700.4	706.1	721.6	744.8	772.6	794.3	798.1	801.4
25°	1476.8	1186.5	733.9	672.1	674.5	683.4	699.0	715.5	730.6	726.4	729.7
27.5°	1533.9	1169.6	696.6	646.1	641.9	643.8	651.8	657.0	665.0	653.2	654.6
30°	1600.9	1151.1	667.8	623.5	611.7	608.4	610.3	613.1	619.2	603.2	600.8
32.5°	1678.8	1129.0	640.9	603.7	587.1	580.5	581.5	589.0	612.6	602.7	597.5
35°	1769.4	1103.9	612.6	581.9	570.6	561.2	560.2	583.8	654.2	648.0	643.3
37.5°	1875.6	1078.9	584.3	557.4	558.3	548.0	544.7	571.6	662.2	638.1	634.8
40°	2010.6	1065.7	560.2	531.4	543.2	541.8	535.2	548.9	609.3	565.4	559.8
42.5°	2177.7	1067.6	542.3	503.6	525.3	540.4	530.0	530.5	552.2	519.2	514.0
45°	2383.9	1089.8	529.6	481.4	505.0	539.0	528.1	520.6	522.5	505.0	502.2
47.5°	2624.7	1135.6	520.6	463.0	485.7	533.8	527.7	517.8	513.5	504.1	501.7
50°	2892.3	1202.1	514.0	445.5	468.2	525.3	528.1	514.9	510.2	506.4	505.0
52.5°	3155.2	1278.1	504.1	430.4	454.5	514.9	529.6	512.1	506.9	504.1	502.7
55°	3448.2	1373.0	489.0	417.7	443.2	501.7	529.6	507.8	502.2	502.7	502.2
57.5°	3844.2	1526.4	471.0	406.8	429.5	485.7	520.6	503.1	496.0	496.5	497.0
60°	4463.0	1796.8	449.3	396.0	412.5	466.8	508.3	492.7	485.7	487.6	488.0
62.5°	5373.0	2193.7	421.0	379.9	394.6	446.5	491.3	479.5	472.4	477.2	477.2
65°	6318.8	2543.9	386.1	359.6	375.7	424.3	470.1	463.0	455.9	466.8	466.3
67.5°	6573.2	2465.6	351.1	337.5	356.8	399.8	444.6	440.8	437.0	455.9	455.0
70°	5839.3	1979.5	319.1	314.8	336.0	373.3	417.2	417.2	414.9	429.0	425.7
72.5°	4448.8	1403.7	288.4	290.7	312.4	344.5	387.5	390.8	387.0	394.1	391.3
75°	2381.6	803.3	257.7	264.3	283.2	315.3	354.5	357.8	355.4	354.9	356.3
77.5°	791.5	392.7	225.6	236.0	252.5	285.1	320.0	325.2	319.5	318.6	318.1
80°	352.6	246.8	190.2	203.9	218.5	250.6	283.7	287.9	281.8	290.3	279.4
82.5°	226.5	162.4	152.4	167.6	181.7	216.2	247.3	248.3	242.6	281.8	240.2
85°	110.0	100.5	114.7	128.4	140.6	169.9	204.8	205.3	191.1	174.2	168.0
87.5°	54.7	58.5	76.5	88.7	94.9	116.6	149.1	146.3	140.2	127.4	117.5
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)