

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: P194020

Luminaire Tested: **GLEON-AF-02-LED-E1-T3R-8030-800**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P194020  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P40129)  
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-T3R-8030-800  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8210 lumens  
Efficiency: N/A  
Efficacy: 96.6 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type III - Short - Full Cutoff  
BUG Rating: B1 - 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

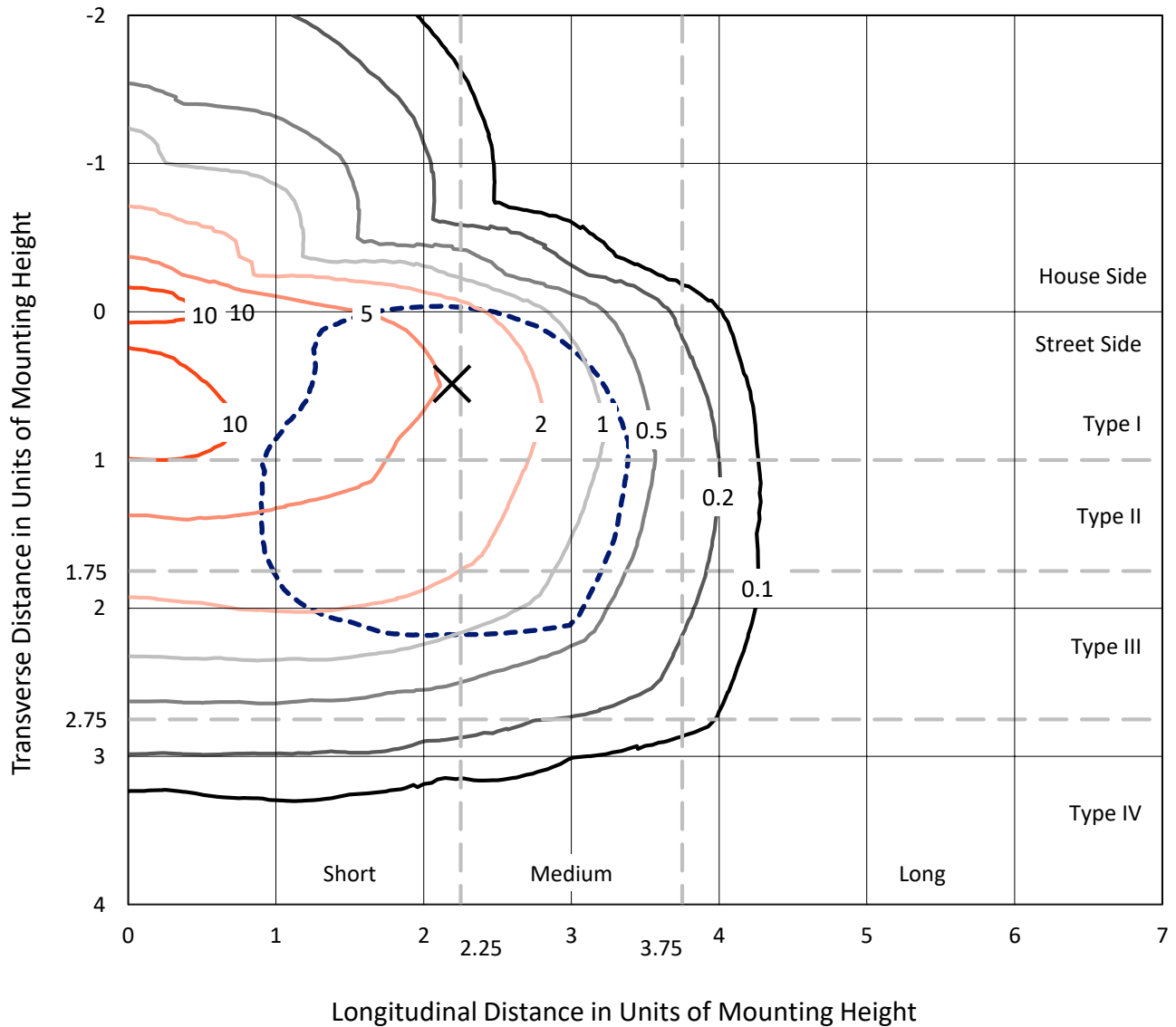


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

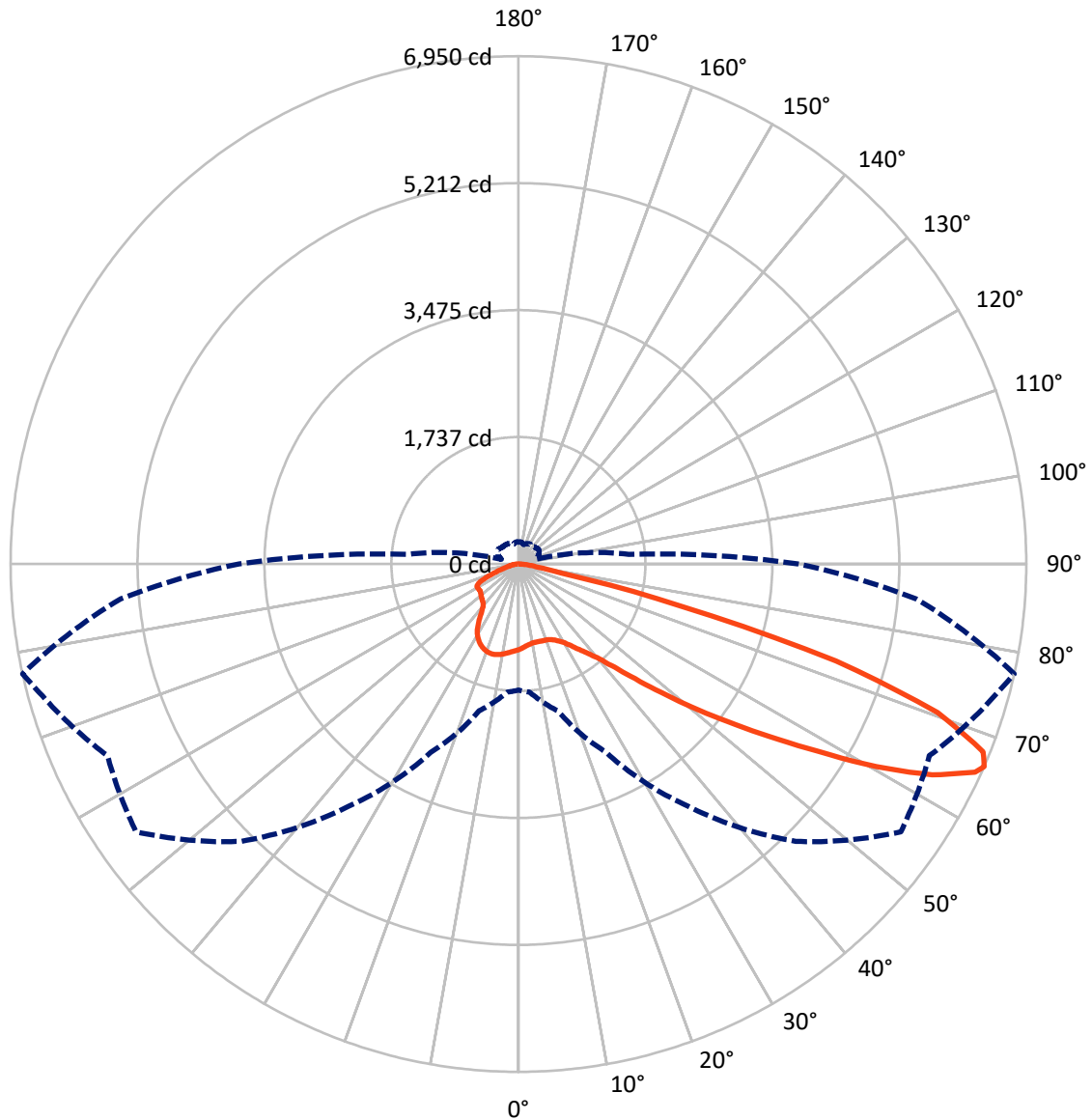


Based on 10 foot mounting height. Maximum calculated value = 14.4 fc  
 Type III - Short - Full Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 77.5-Deg Lateral    - - - Horizontal Cone Through 66-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1402.6	0.0	1402.6
	% Fixture	17.1	0.0	17.1
<b>Street Side</b>	Lumens	6807.4	0.0	6807.4
	% Fixture	82.9	0.0	82.9
<b>Total</b>	Lumens	8210.0	0.0	8210.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	104.5	1.3
10°-20°	294.9	3.6
20°-30°	503.3	6.1
30°-40°	805.6	9.8
40°-50°	1244.6	15.2
50°-60°	1765.3	21.5
60°-70°	2361.5	28.8
70°-80°	1025.6	12.5
80°-90°	104.6	1.3
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°	8210.0	100.0
0°-180°	8210.0	100.0



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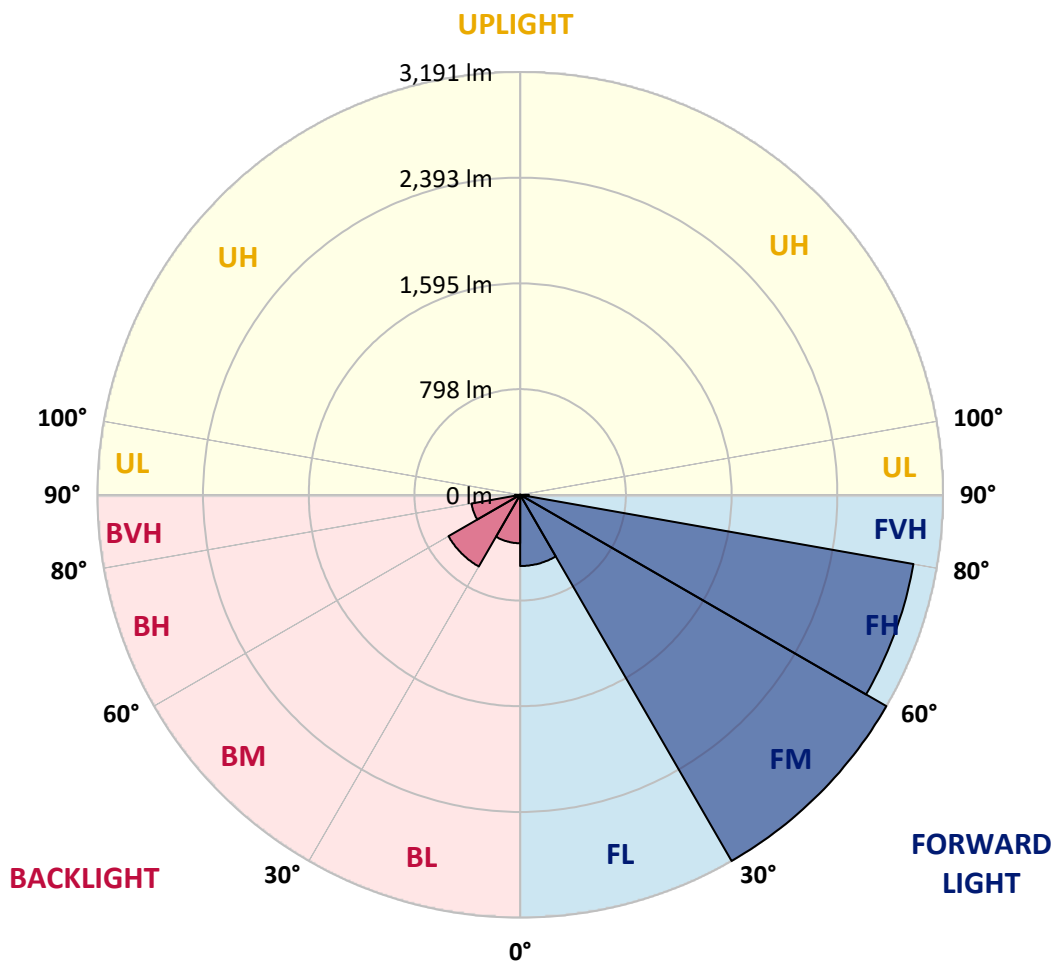
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	537.4	6.5			
FM	(30°-60°)	3190.8	38.9			
FH	(60°-80°)	3013.6	36.7			G2/5000
FVH	(80°-90°)	65.6	0.8			G1/100
BL	(0°-30°)	365.3	4.4	B1/500		
BM	(30°-60°)	624.8	7.6	B1/1000		
BH	(60°-80°)	373.5	4.5	B1/500		G1/500
BVH	(80°-90°)	39.0	0.5			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G2**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77.5°	85°
0°	1170.0	1170.0	1170.0	1170.0	1170.0	1170.0	1170.0	1170.0	1170.0	1170.0	1170.0
2.5°	1035.0	1042.0	1047.8	1053.2	1064.1	1081.9	1102.5	1119.1	1143.2	1147.9	1160.7
5°	939.9	939.9	944.6	952.7	967.5	994.2	1022.2	1059.4	1111.8	1124.2	1158.3
7.5°	893.8	894.2	896.9	903.9	916.7	941.1	971.7	1015.6	1086.6	1107.1	1165.3
10°	910.8	907.0	901.1	897.6	899.6	913.9	943.0	991.9	1071.0	1097.4	1180.8
12.5°	1006.3	998.9	978.7	952.0	926.4	915.9	932.9	980.7	1064.5	1095.1	1201.4
15°	1162.2	1159.1	1121.5	1066.0	1003.9	952.0	940.3	976.4	1065.2	1097.8	1225.8
17.5°	1357.7	1353.4	1303.8	1223.1	1121.9	1020.6	966.3	979.9	1067.9	1102.5	1249.5
20°	1555.2	1542.0	1488.4	1392.2	1262.3	1114.1	1009.4	988.8	1071.4	1107.5	1274.3
22.5°	1702.6	1691.7	1643.6	1550.1	1400.4	1222.3	1067.2	1004.3	1082.7	1122.2	1305.0
25°	1832.1	1832.9	1785.2	1694.8	1540.0	1337.2	1141.6	1045.8	1111.4	1152.5	1346.9
27.5°	1992.4	1983.0	1938.4	1848.8	1678.1	1453.1	1231.6	1102.9	1154.1	1195.6	1401.9
30°	2184.0	2177.4	2125.8	2024.2	1831.4	1577.7	1334.4	1169.2	1209.1	1252.2	1474.1
32.5°	2409.4	2406.3	2352.7	2222.0	2008.3	1724.3	1455.1	1256.9	1291.4	1336.0	1577.7
35°	2673.9	2674.3	2611.1	2454.0	2201.8	1895.0	1592.0	1369.7	1391.5	1438.0	1701.0
37.5°	2836.9	2856.6	2833.0	2672.8	2421.0	2085.8	1769.7	1519.5	1505.5	1552.5	1833.3
40°	2871.8	2895.8	2970.7	2889.2	2666.2	2296.1	1927.2	1663.4	1645.9	1703.4	2003.6
42.5°	2822.9	2856.2	3014.5	3071.9	2926.5	2555.2	2139.0	1877.1	1855.0	1932.2	2215.4
45°	2793.8	2818.6	3001.7	3167.0	3152.2	2848.1	2408.6	2145.6	2137.4	2238.7	2459.8
47.5°	2743.4	2765.9	2942.0	3189.1	3284.9	3116.5	2732.5	2473.8	2489.7	2622.3	2735.6
50°	2770.5	2779.8	2875.3	3132.8	3323.3	3313.2	3094.4	2853.9	2908.2	3073.9	3047.9
52.5°	2766.6	2790.7	2867.5	3040.5	3328.3	3434.6	3450.9	3277.9	3392.4	3582.4	3394.3
55°	2236.7	2281.0	2776.3	3017.2	3346.2	3553.7	3768.2	3724.8	3938.2	4159.7	3785.3
57.5°	2135.9	2163.8	2438.5	3066.1	3440.8	3781.0	4121.3	4216.7	4573.6	4830.8	4261.7
60°	2116.1	2150.6	2435.0	3125.9	3632.9	4151.5	4644.6	4812.1	5346.7	5628.3	4814.1
62.5°	2054.4	2091.7	2412.1	3118.1	3905.6	4664.0	5314.5	5445.2	6079.9	6353.7	5276.1
65°	1858.9	1893.8	2225.5	2992.8	4089.4	5210.9	6107.4	6025.5	6658.6	6864.6	5506.5
66°	1725.1	1759.2	2078.5	2845.4	4046.8	5366.1	6388.3	6205.2	6788.2	6949.6	5461.5
67.5°	1480.3	1507.1	1793.0	2515.3	3819.8	5409.5	6624.5	6340.1	6801.8	6858.8	5204.3
70°	935.3	943.0	1165.3	1736.3	2891.5	4691.5	6264.9	6005.0	6240.8	6086.5	4362.9
72.5°	405.8	403.0	559.4	883.3	1637.0	3148.0	5067.8	4954.9	4895.5	4543.3	3054.1
75°	225.8	228.9	290.6	410.0	665.3	1546.2	3315.2	3172.4	2678.6	2285.6	1384.9
77.5°	181.2	185.4	240.9	290.9	298.7	539.2	1551.3	1262.3	759.9	609.8	384.8
80°	143.1	150.9	210.3	226.5	201.3	222.3	501.2	400.7	300.6	275.8	199.4
82.5°	113.3	118.7	180.4	171.5	140.8	149.7	240.1	233.9	195.5	178.1	115.2
85°	81.5	91.5	148.2	129.2	92.3	100.9	159.4	152.8	112.1	91.5	50.8
87.5°	33.4	43.4	104.7	85.7	51.6	46.9	79.5	74.9	53.1	38.8	25.2
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°	1170.0	1170.0	1170.0	1170.0	1170.0	1170.0	1170.0	1170.0	1170.0	1170.0	1170.0
2.5°	1168.8	1178.1	1190.1	1197.5	1201.4	1204.1	1208.4	1208.0	1209.1	1209.5	1211.1
5°	1176.6	1192.1	1209.5	1214.2	1214.2	1209.9	1205.7	1198.7	1196.0	1195.2	1196.0
7.5°	1196.7	1213.8	1228.9	1223.5	1211.9	1194.8	1172.7	1153.3	1142.8	1139.3	1138.5
10°	1222.3	1242.9	1249.1	1228.5	1194.4	1153.3	1109.4	1077.6	1059.4	1054.4	1052.8
12.5°	1253.4	1272.8	1264.2	1220.8	1157.6	1091.2	1030.7	979.9	941.9	929.8	929.1
15°	1287.5	1302.6	1272.8	1196.7	1102.5	1004.7	896.9	809.2	761.9	746.7	745.6
17.5°	1319.3	1327.1	1267.7	1154.8	1021.4	863.1	720.0	652.5	636.2	640.1	640.8
20°	1346.5	1346.5	1250.7	1094.7	893.8	676.5	586.1	585.0	596.6	608.3	610.6
22.5°	1376.3	1358.5	1220.8	1009.8	713.0	553.6	540.4	551.2	564.4	577.2	579.2
25°	1413.2	1368.2	1179.3	881.0	560.5	502.7	507.8	516.7	523.3	531.4	532.6
27.5°	1454.3	1380.6	1124.6	703.7	486.5	470.9	474.8	477.9	477.1	480.2	481.0
30°	1503.6	1395.0	1049.7	550.1	455.8	443.8	436.8	434.1	434.1	439.1	441.1
32.5°	1569.5	1416.3	942.3	471.3	441.1	424.4	401.9	391.8	395.7	412.7	416.6
35°	1642.1	1439.2	796.8	444.6	438.0	415.5	380.5	361.9	362.3	378.2	383.3
37.5°	1721.2	1468.3	637.4	439.5	444.9	415.8	369.3	343.7	333.2	333.2	335.2
40°	1822.4	1498.1	515.9	443.0	459.7	420.5	363.5	329.3	299.9	300.6	302.2
42.5°	1954.3	1523.7	450.8	450.4	477.5	426.7	363.1	310.3	284.7	302.2	318.1
45°	2101.0	1536.5	422.1	457.0	491.9	430.6	356.9	307.2	286.7	338.7	368.9
47.5°	2269.7	1529.2	406.2	459.3	495.4	430.6	349.9	314.6	300.2	392.2	427.5
50°	2454.8	1507.8	390.6	454.6	494.2	429.8	356.5	322.0	305.3	401.5	425.9
52.5°	2672.4	1490.0	374.3	444.6	486.1	425.5	364.3	318.9	289.4	365.0	382.1
55°	2920.6	1495.0	356.1	430.2	473.3	417.4	361.5	306.5	272.7	321.6	332.1
57.5°	3238.0	1555.2	334.4	412.0	455.8	403.8	351.8	300.6	267.7	291.7	297.9
60°	3592.1	1659.9	307.2	393.7	434.1	382.1	344.5	303.4	270.0	289.4	292.5
62.5°	3852.0	1720.8	284.0	367.0	404.6	358.0	335.2	306.8	276.2	297.5	296.8
65°	3922.6	1620.7	254.9	327.8	364.6	332.8	323.5	310.7	278.9	304.1	300.6
66°	3823.7	1512.9	242.1	309.6	344.5	320.4	317.7	310.3	277.8	304.9	299.1
67.5°	3583.6	1291.8	220.0	282.8	312.3	301.8	308.4	306.8	274.6	304.1	296.0
70°	2922.6	881.4	188.1	235.5	259.9	265.7	290.6	294.4	264.6	290.6	272.7
72.5°	2042.0	536.9	166.4	182.7	210.3	226.5	266.1	277.4	251.0	253.7	236.6
75°	986.9	285.1	150.9	141.6	163.3	189.3	236.6	254.1	229.6	212.2	206.0
77.5°	307.6	174.2	128.0	114.0	128.0	152.8	197.8	222.7	204.4	177.7	175.3
80°	165.3	128.0	98.5	91.5	101.2	119.9	155.6	185.8	175.7	159.4	142.4
82.5°	109.0	83.0	72.9	71.0	77.2	91.5	115.6	154.0	154.0	136.5	99.3
85°	56.2	50.8	50.0	50.0	53.9	60.9	78.7	118.7	126.5	72.2	59.7
87.5°	27.9	29.1	27.2	28.3	30.3	29.9	37.6	59.7	71.4	43.8	36.5
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)