

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: P269111

Luminaire Tested: **GLEON-AF-02-LED-E1-T3R-7027-800**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P269111  
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-7027-800  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 70 CRI, 2700K, 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: 8741.1 lumens  
Efficiency: N/A  
Efficacy: 102.8 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

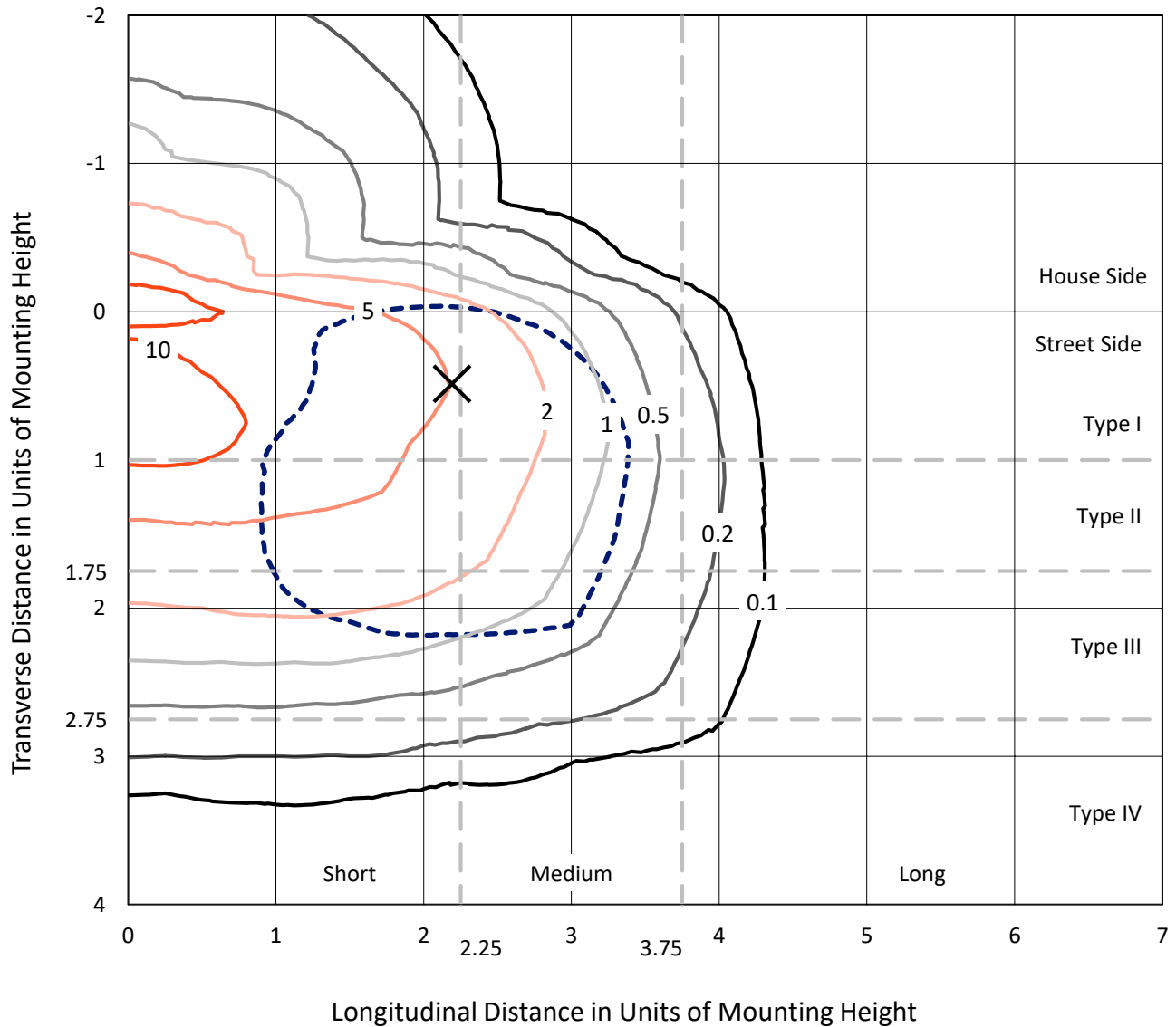


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

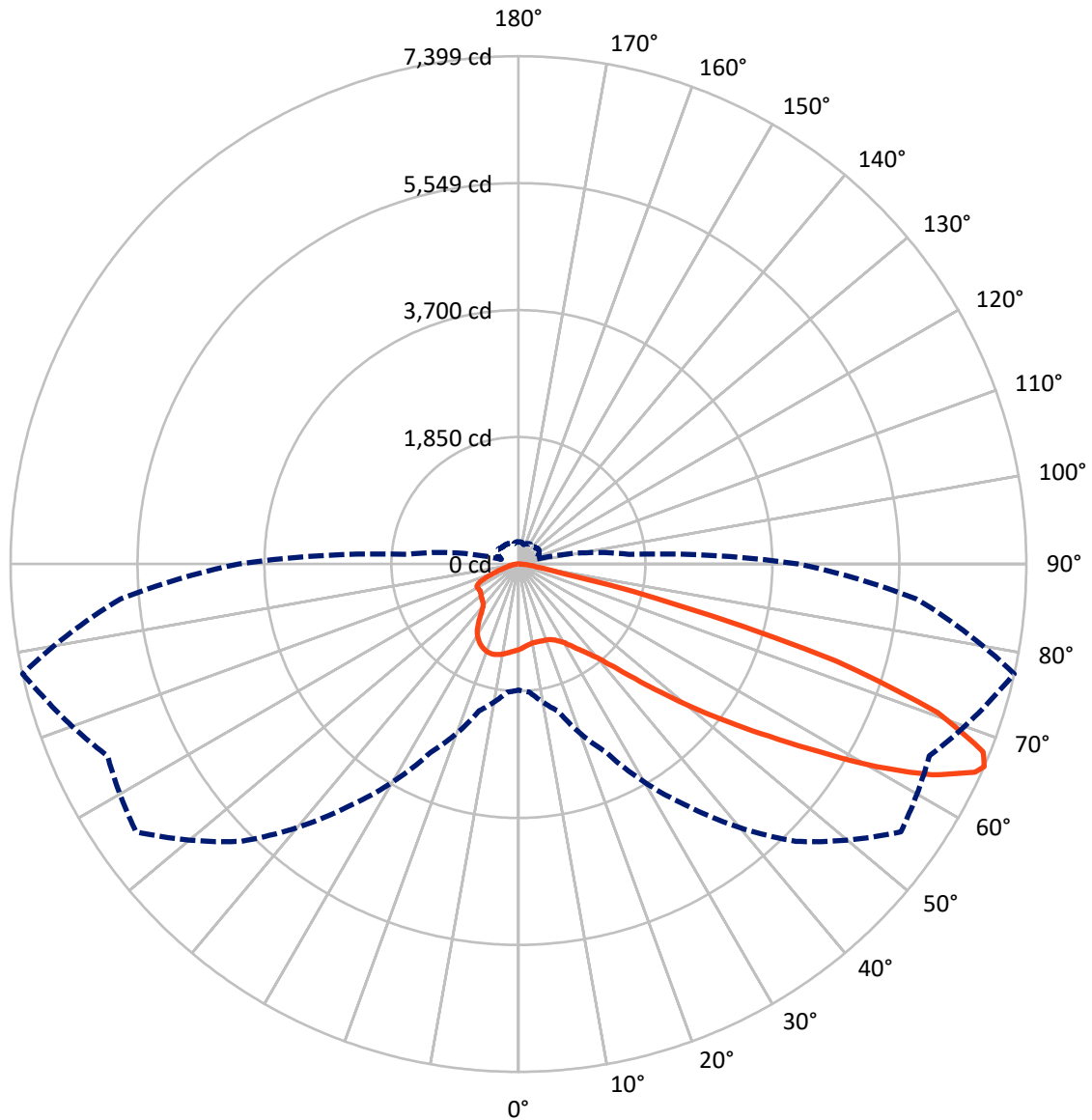


Based on 10 foot mounting height. Maximum calculated value = 15.4 fc  
 Type III - Short - Full Cutoff

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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	1493.4	0.0	1493.4
	% Fixture	17.1	0.0	17.1
<b>Street Side</b>	Lumens	7247.7	0.0	7247.7
	% Fixture	82.9	0.0	82.9
<b>Total</b>	Lumens	8741.1	0.0	8741.1
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	111.3	1.3
10°-20°	314.0	3.6
20°-30°	535.8	6.1
30°-40°	857.8	9.8
40°-50°	1325.2	15.2
50°-60°	1879.5	21.5
60°-70°	2514.3	28.8
70°-80°	1091.9	12.5
80°-90°	111.3	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°	8741.1	100.0
0°-180°	8741.1	100.0



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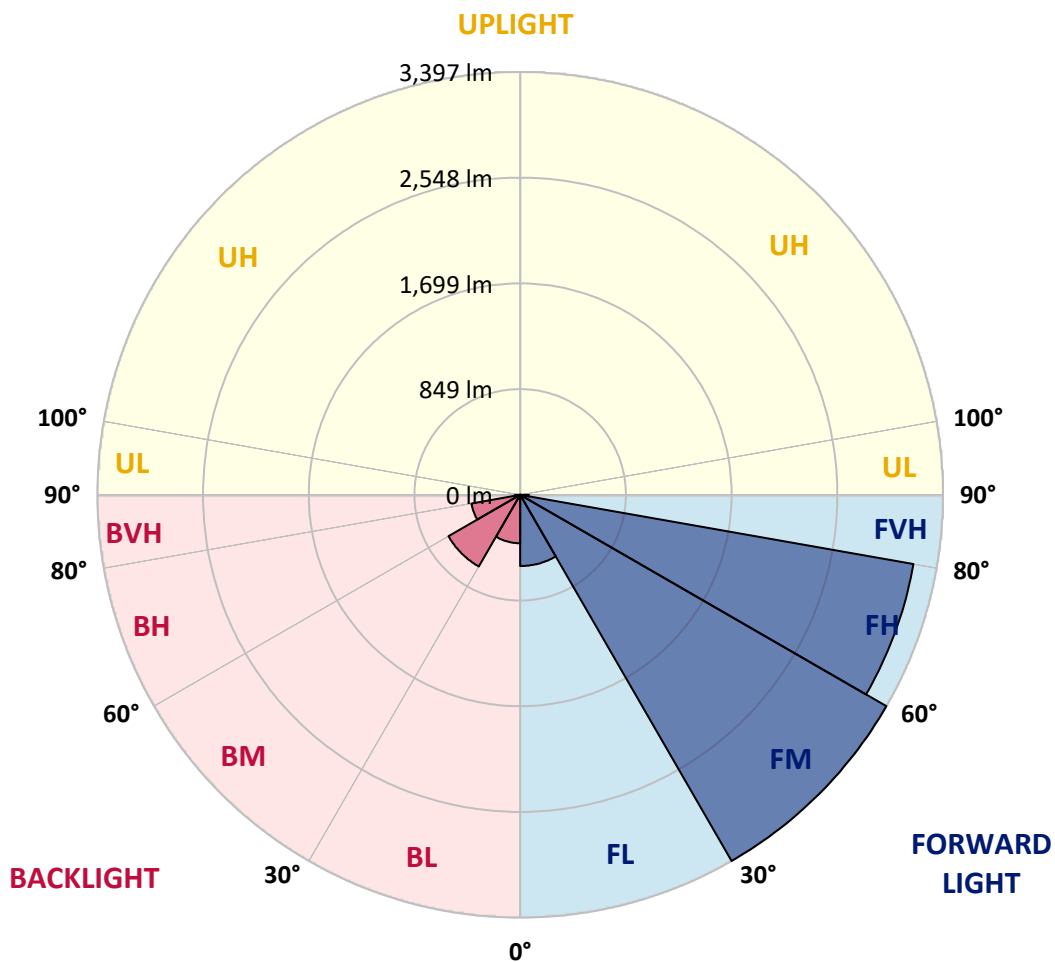
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	572.1	6.5			
FM	(30°-60°)	3397.2	38.9			
FH	(60°-80°)	3208.5	36.7			G2/5000
FVH	(80°-90°)	69.8	0.8			G1/100
BL	(0°-30°)	388.9	4.4	B1/500		
BM	(30°-60°)	665.2	7.6	B1/1000		
BH	(60°-80°)	397.7	4.5	B1/500		G1/500
BVH	(80°-90°)	41.5	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°	1245.6	1245.6	1245.6	1245.6	1245.6	1245.6	1245.6	1245.6	1245.6	1245.6	1245.6
2.5°	1102.0	1109.3	1115.5	1121.4	1132.9	1151.8	1173.7	1191.5	1217.2	1222.1	1235.7
5°	1000.7	1000.7	1005.7	1014.4	1030.0	1058.6	1088.2	1127.9	1183.6	1196.9	1233.3
7.5°	951.6	952.1	954.9	962.4	976.0	1002.0	1034.6	1081.3	1156.8	1178.8	1240.6
10°	969.7	965.6	959.4	955.6	957.8	973.0	1004.0	1056.0	1140.3	1168.4	1257.2
12.5°	1071.4	1063.6	1042.0	1013.6	986.2	975.1	993.3	1044.1	1133.3	1165.9	1279.0
15°	1237.3	1234.1	1193.9	1135.0	1068.9	1013.6	1001.2	1039.6	1134.1	1168.9	1305.1
17.5°	1445.6	1441.1	1388.2	1302.3	1194.4	1086.6	1028.7	1043.3	1137.1	1173.7	1330.3
20°	1655.8	1641.7	1584.7	1482.4	1344.0	1186.2	1074.6	1052.8	1140.8	1179.1	1356.7
22.5°	1812.7	1801.1	1750.0	1650.4	1490.9	1301.5	1136.1	1069.3	1152.7	1194.8	1389.4
25°	1950.7	1951.5	1900.6	1804.4	1639.6	1423.6	1215.4	1113.4	1183.2	1227.1	1434.0
27.5°	2121.3	2111.3	2063.9	1968.5	1786.6	1547.2	1311.3	1174.2	1228.7	1272.9	1492.7
30°	2325.3	2318.3	2263.3	2155.2	1949.9	1679.7	1420.8	1244.8	1287.4	1333.3	1569.5
32.5°	2565.2	2562.0	2505.0	2365.7	2138.1	1835.9	1549.1	1338.1	1374.9	1422.5	1679.7
35°	2846.9	2847.3	2780.0	2612.7	2344.2	2017.6	1695.0	1458.4	1481.5	1531.0	1811.1
37.5°	3020.3	3041.4	3016.1	2845.7	2577.5	2220.8	1884.1	1617.8	1602.8	1652.9	1951.8
40°	3057.6	3083.2	3162.8	3076.2	2838.6	2444.6	2051.9	1771.0	1752.5	1813.6	2133.3
42.5°	3005.5	3041.0	3209.6	3270.6	3115.9	2720.4	2277.4	1998.5	1975.1	2057.2	2358.7
45°	2974.5	3001.0	3195.9	3371.9	3356.2	3032.3	2564.4	2284.4	2275.6	2383.6	2618.9
47.5°	2920.7	2944.7	3132.3	3395.4	3497.5	3318.1	2909.3	2633.8	2650.7	2791.9	2912.6
50°	2949.8	2959.6	3061.2	3335.4	3538.2	3527.6	3294.7	3038.5	3096.4	3272.7	3245.0
52.5°	2945.6	2971.2	3053.0	3237.2	3543.6	3656.8	3674.2	3489.9	3611.7	3814.2	3613.8
55°	2381.4	2428.5	2956.0	3212.3	3562.7	3783.7	4012.0	3965.7	4192.8	4428.7	4030.2
57.5°	2274.1	2303.8	2596.2	3264.4	3663.4	4025.7	4387.9	4489.4	4869.4	5143.2	4537.3
60°	2252.9	2289.7	2592.5	3328.0	3867.8	4420.1	4945.0	5123.5	5692.6	5992.5	5125.5
62.5°	2187.4	2227.0	2568.2	3319.7	4158.3	4965.7	5658.2	5797.4	6473.1	6764.7	5617.5
65°	1979.1	2016.3	2369.5	3186.4	4353.9	5548.0	6502.6	6415.3	7089.3	7308.7	5862.7
66°	1836.7	1873.0	2213.0	3029.4	4308.5	5713.2	6801.4	6606.6	7227.4	7399.1	5814.8
67.5°	1576.0	1604.6	1909.0	2677.9	4066.9	5759.5	7053.0	6750.3	7241.7	7302.4	5540.9
70°	995.9	1004.0	1240.6	1848.6	3078.6	4994.9	6670.2	6393.4	6644.6	6480.2	4645.1
72.5°	432.1	429.1	595.5	940.4	1742.9	3351.5	5395.6	5275.3	5212.2	4837.3	3251.7
75°	240.3	243.7	309.3	436.5	708.4	1646.2	3529.6	3377.5	2851.8	2433.5	1474.5
77.5°	192.9	197.4	256.5	309.7	318.0	574.0	1651.7	1344.0	809.2	649.3	409.6
80°	152.4	160.6	223.9	241.3	214.3	236.7	533.7	426.6	320.1	293.7	212.3
82.5°	120.6	126.4	192.1	182.5	149.9	159.4	255.7	249.0	208.1	189.5	122.7
85°	86.7	97.5	157.7	137.5	98.4	107.3	169.8	162.8	119.4	97.5	54.1
87.5°	35.6	46.3	111.5	91.3	54.9	49.9	84.7	79.7	56.7	41.3	26.9
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°	1245.6	1245.6	1245.6	1245.6	1245.6	1245.6	1245.6	1245.6	1245.6	1245.6	1245.6
2.5°	1244.4	1254.4	1267.1	1275.0	1279.0	1282.1	1286.6	1286.2	1287.4	1287.8	1289.4
5°	1252.6	1269.1	1287.8	1292.8	1292.8	1288.2	1283.7	1276.2	1273.3	1272.4	1273.3
7.5°	1274.2	1292.3	1308.4	1302.6	1290.2	1272.1	1248.6	1228.0	1216.8	1213.0	1212.3
10°	1301.5	1323.4	1329.9	1308.0	1271.7	1228.0	1181.2	1147.3	1127.9	1122.5	1120.9
12.5°	1334.4	1355.2	1346.0	1299.8	1232.5	1161.8	1097.4	1043.3	1002.8	990.0	989.2
15°	1370.9	1387.0	1355.2	1274.2	1173.7	1069.7	954.9	861.6	811.2	795.0	793.8
17.5°	1404.7	1412.9	1349.8	1229.5	1087.5	919.0	766.6	694.7	677.3	681.5	682.4
20°	1433.5	1433.5	1331.6	1165.6	951.6	720.4	624.1	622.9	635.2	647.6	650.1
22.5°	1465.3	1446.5	1299.8	1075.1	759.1	589.4	575.4	587.0	601.0	614.6	616.6
25°	1504.7	1456.7	1255.6	937.9	596.8	535.3	540.6	550.1	557.2	565.8	567.1
27.5°	1548.4	1469.8	1197.4	749.1	518.0	501.4	505.6	508.8	508.0	511.3	512.2
30°	1600.8	1485.2	1117.6	585.6	485.3	472.5	465.1	462.2	462.2	467.6	469.6
32.5°	1671.0	1508.0	1003.1	501.9	469.6	451.8	428.0	417.2	421.2	439.5	443.6
35°	1748.3	1532.2	848.3	473.2	466.3	442.3	405.1	385.4	385.7	402.7	408.1
37.5°	1832.5	1563.2	678.6	467.9	473.8	442.8	393.2	365.9	354.8	354.8	356.8
40°	1940.2	1595.0	549.4	471.7	489.4	447.7	387.0	350.7	319.3	320.1	321.8
42.5°	2080.7	1622.2	480.0	479.5	508.4	454.4	386.6	330.3	303.2	321.8	338.8
45°	2236.9	1636.0	449.3	486.5	523.7	458.5	380.0	327.2	305.2	360.6	392.7
47.5°	2416.5	1628.1	432.4	488.9	527.5	458.5	372.5	335.0	319.6	417.5	455.1
50°	2613.6	1605.5	415.9	484.0	526.1	457.6	379.5	342.9	325.0	427.5	453.5
52.5°	2845.2	1586.3	398.6	473.2	517.6	453.0	387.8	339.5	308.1	388.6	406.8
55°	3109.6	1591.7	379.2	458.0	503.9	444.4	385.0	326.3	290.3	342.3	353.6
57.5°	3447.4	1655.8	356.0	438.6	485.3	430.0	374.7	320.1	285.0	310.5	317.2
60°	3824.5	1767.2	327.2	419.1	462.2	406.8	366.8	323.0	287.5	308.1	311.4
62.5°	4101.2	1832.2	302.3	390.8	430.7	381.2	356.8	326.8	294.0	316.8	315.9
65°	4176.4	1725.6	271.4	349.0	388.2	354.4	344.5	330.8	297.0	323.7	320.1
66°	4071.1	1610.8	257.8	329.6	366.8	341.1	338.2	330.3	295.7	324.6	318.4
67.5°	3815.5	1375.3	234.2	301.1	332.5	321.4	328.3	326.8	292.4	323.7	315.1
70°	3111.5	938.4	200.3	250.6	276.7	283.0	309.3	313.5	281.7	309.3	290.3
72.5°	2174.1	571.6	177.1	194.6	223.9	241.3	283.3	295.4	267.2	270.1	252.0
75°	1050.7	303.5	160.6	150.7	173.9	201.6	252.0	270.5	244.5	226.0	219.2
77.5°	327.5	185.4	136.4	121.5	136.4	162.8	210.7	237.1	217.7	189.2	186.7
80°	176.0	136.4	104.9	97.5	107.7	127.6	165.6	197.8	187.0	169.8	151.5
82.5°	116.1	88.5	77.7	75.5	82.1	97.5	123.1	164.0	164.0	145.3	105.7
85°	59.8	54.1	53.3	53.3	57.4	64.9	83.8	126.4	134.7	76.8	63.6
87.5°	29.7	31.0	28.9	30.2	32.2	31.8	40.1	63.6	75.9	46.7	38.8
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)