

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: P200036

Luminaire Tested: **GPC-AF-02-LED-E1-T3R-7030-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P200036
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: GPC-AF-02-LED-E1-T3R-7030-600
Description: GALLEON PEDESTRIAN LUMINAIRE
(2) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8093.9 lumens
Efficiency: N/A
Efficacy: 122.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short - Full Cutoff
BUG Rating: B1 - U0 - G2

Input Watts (W): 66
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

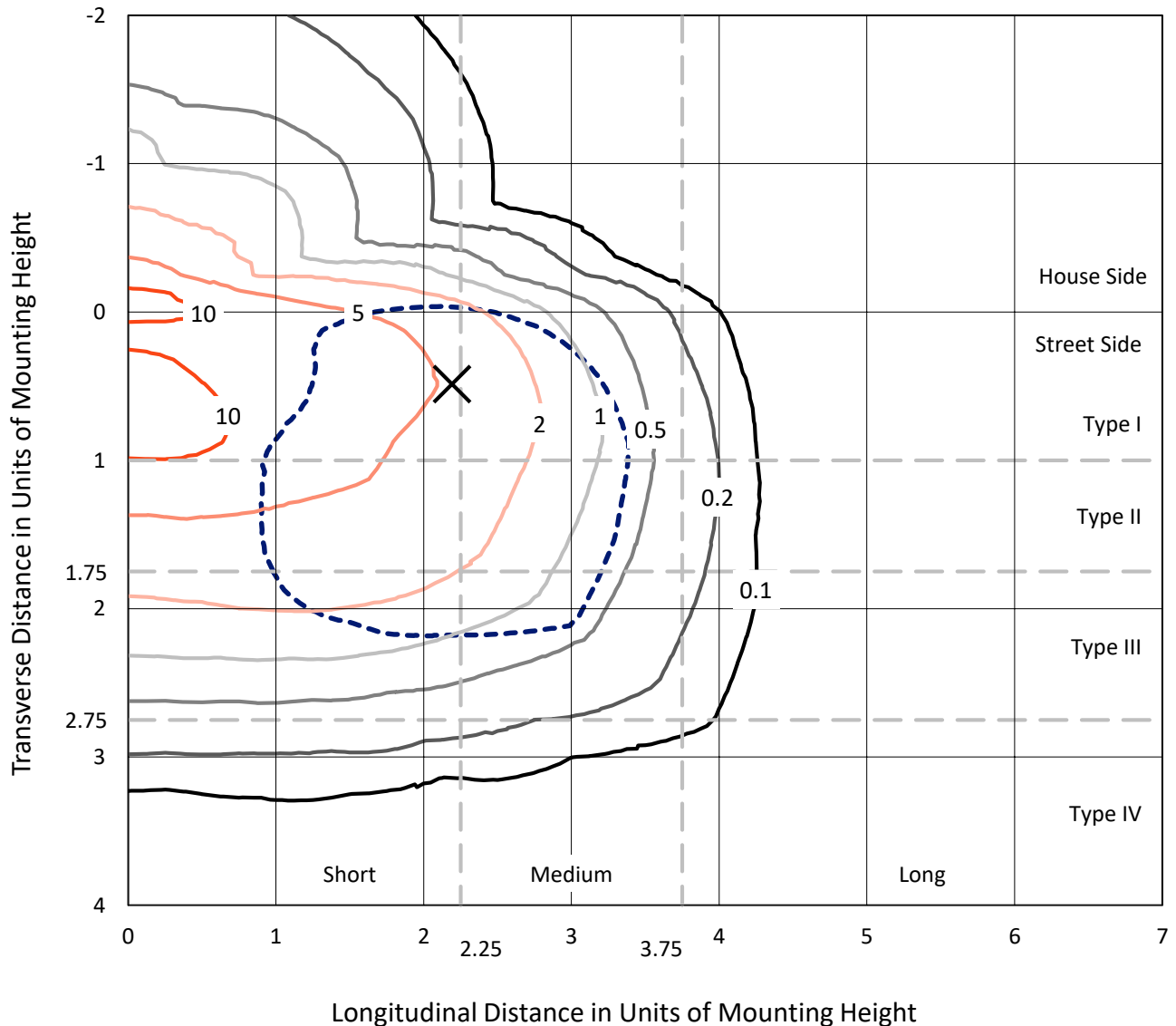


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Iso-Footcandle Lines of Horizontal Illumination

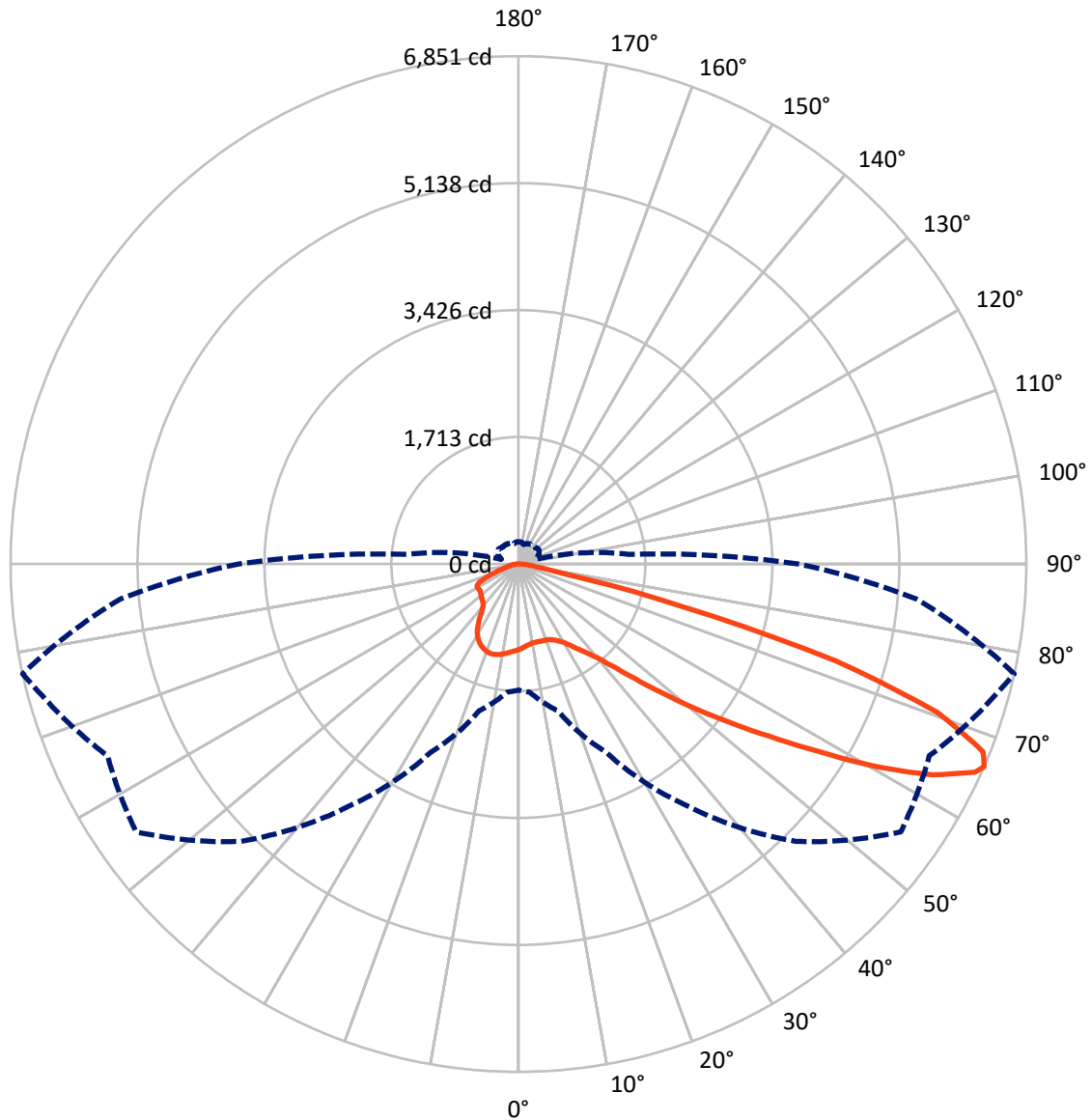
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 14.2 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
House Side	Lumens	1382.8	0.0	1382.8
	% Fixture	17.1	0.0	17.1
Street Side	Lumens	6711.1	0.0	6711.1
	% Fixture	82.9	0.0	82.9
Total	Lumens	8093.9	0.0	8093.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	103.0	1.3
10°-20°	290.7	3.6
20°-30°	496.2	6.1
30°-40°	794.3	9.8
40°-50°	1227.0	15.2
50°-60°	1740.4	21.5
60°-70°	2328.2	28.8
70°-80°	1011.1	12.5
80°-90°	103.1	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°	8093.9	100.0
0°-180°	8093.9	100.0

Coefficient of Utilization



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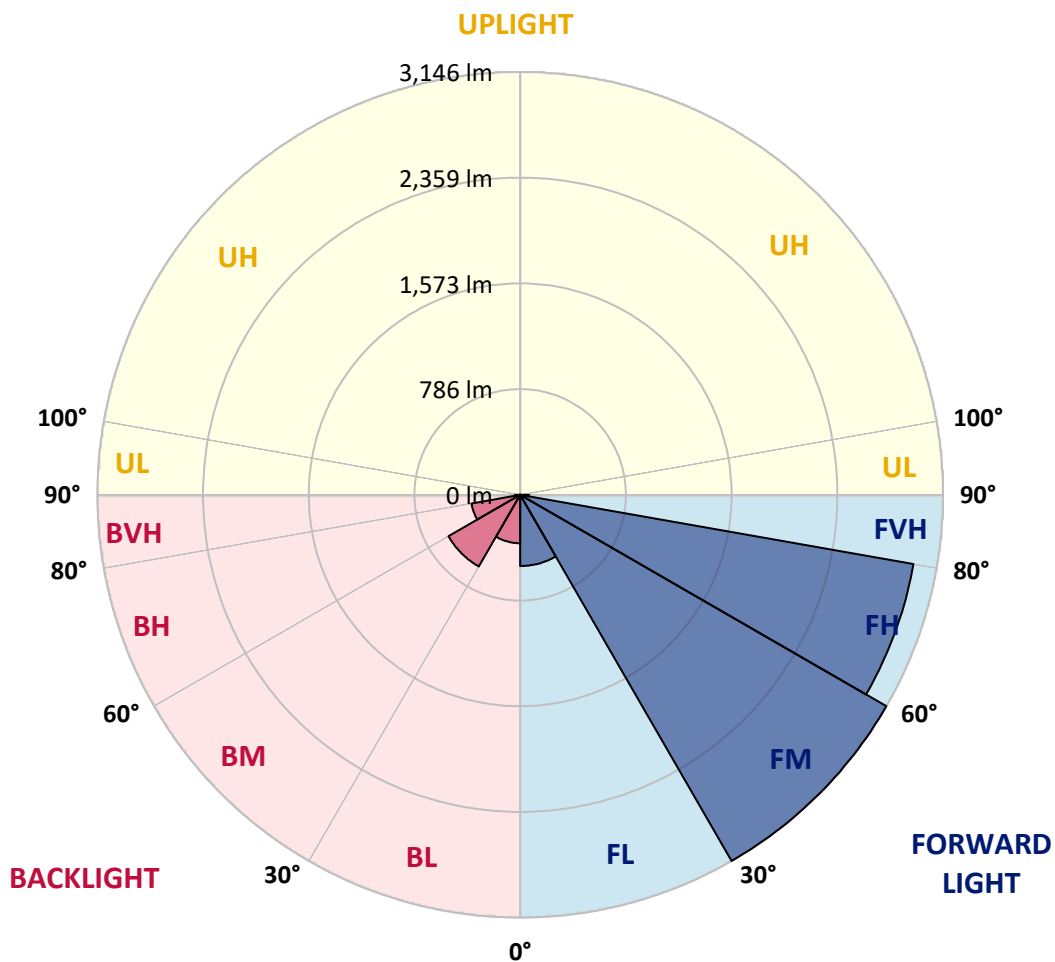
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	529.8	6.5			
FM	(30°-60°)	3145.7	38.9			
FH	(60°-80°)	2971.0	36.7			G2/5000
FVH	(80°-90°)	64.7	0.8			G1/100
BL	(0°-30°)	360.1	4.4	B1/500		
BM	(30°-60°)	615.9	7.6	B1/1000		
BH	(60°-80°)	368.3	4.5	B1/500		G1/500
BVH	(80°-90°)	38.4	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°	1153.4	1153.4	1153.4	1153.4	1153.4	1153.4	1153.4	1153.4	1153.4	1153.4	1153.4
2.5°	1020.4	1027.2	1032.9	1038.3	1049.0	1066.6	1086.9	1103.3	1127.0	1131.6	1144.3
5°	926.6	926.6	931.2	939.3	953.9	980.2	1007.7	1044.4	1096.1	1108.3	1142.0
7.5°	881.1	881.5	884.2	891.1	903.7	927.8	957.9	1001.3	1071.2	1091.5	1148.9
10°	898.0	894.2	888.4	885.0	886.8	901.1	929.7	977.9	1055.9	1081.8	1164.1
12.5°	992.1	984.8	964.9	938.5	913.3	902.9	919.8	966.8	1049.4	1079.6	1184.4
15°	1145.8	1142.8	1105.6	1051.0	989.8	938.5	927.1	962.6	1050.2	1082.3	1208.5
17.5°	1338.5	1334.3	1285.3	1205.7	1106.0	1006.2	952.6	966.1	1052.8	1086.9	1231.8
20°	1533.1	1520.2	1467.4	1372.6	1244.5	1098.4	995.2	974.8	1056.3	1091.8	1256.3
22.5°	1678.5	1667.9	1620.5	1528.2	1380.6	1205.0	1052.0	990.1	1067.4	1106.4	1286.5
25°	1806.3	1807.0	1759.9	1670.9	1518.2	1318.2	1125.5	1031.1	1095.7	1136.2	1327.8
27.5°	1964.2	1954.9	1911.1	1822.7	1654.4	1432.6	1214.2	1087.2	1137.7	1178.7	1382.1
30°	2153.1	2146.6	2095.7	1995.5	1805.5	1555.5	1315.6	1152.6	1192.0	1234.5	1453.2
32.5°	2375.3	2372.2	2319.5	2190.5	1979.9	1700.0	1434.5	1239.1	1273.1	1317.1	1555.5
35°	2636.1	2636.5	2574.1	2419.3	2170.7	1868.3	1569.5	1350.3	1371.8	1417.6	1677.0
37.5°	2796.7	2816.2	2792.8	2635.0	2386.8	2056.4	1744.7	1498.0	1484.2	1530.5	1807.3
40°	2831.1	2854.8	2928.7	2848.4	2628.4	2263.7	1899.9	1639.9	1622.7	1679.4	1975.3
42.5°	2783.0	2815.8	2971.9	3028.4	2885.1	2519.1	2108.7	1850.7	1828.8	1904.9	2184.1
45°	2754.3	2778.8	2959.3	3122.2	3107.7	2807.9	2374.5	2115.3	2107.2	2207.0	2425.0
47.5°	2704.6	2726.8	2900.4	3144.1	3238.5	3072.5	2693.9	2438.7	2454.5	2585.3	2696.9
50°	2731.4	2740.5	2834.6	3088.5	3276.3	3266.5	3050.6	2813.5	2867.1	3030.5	3004.7
52.5°	2727.5	2751.2	2827.0	2997.5	3281.3	3386.1	3402.2	3231.6	3344.4	3531.8	3346.3
55°	2205.1	2248.7	2737.1	2974.6	3298.9	3503.5	3715.0	3672.1	3882.5	4100.8	3731.7
57.5°	2105.7	2133.2	2404.0	3022.7	3392.2	3727.6	4063.1	4157.1	4508.9	4762.5	4201.4
60°	2086.2	2120.1	2400.5	3081.6	3581.5	4092.9	4578.8	4744.1	5271.1	5548.7	4746.0
62.5°	2025.3	2062.0	2378.0	3074.0	3850.4	4597.9	5239.3	5368.2	5993.9	6264.0	5201.5
65°	1832.6	1867.0	2194.0	2950.4	4031.6	5137.3	6021.1	5940.3	6564.6	6767.5	5428.6
66°	1700.7	1734.4	2049.0	2805.1	3989.6	5290.3	6297.9	6117.4	6692.2	6851.3	5384.3
67.5°	1459.3	1485.7	1767.6	2479.7	3765.8	5333.1	6530.9	6250.5	6705.6	6761.8	5130.7
70°	922.0	929.7	1148.9	1711.8	2850.7	4625.2	6176.3	5920.1	6152.6	6000.4	4301.2
72.5°	400.0	397.3	551.4	870.8	1613.9	3103.5	4996.1	4884.9	4826.3	4479.1	3010.8
75°	222.6	225.6	286.5	404.3	655.9	1524.3	3268.3	3127.5	2640.7	2253.3	1365.3
77.5°	178.6	182.8	237.5	286.8	294.5	531.5	1529.3	1244.5	749.2	601.2	379.3
80°	141.2	148.8	207.3	223.3	198.6	219.2	494.1	395.1	296.4	271.9	196.5
82.5°	111.7	117.0	177.9	169.1	138.9	147.6	236.8	230.6	192.8	175.6	113.6
85°	80.3	90.2	146.1	127.4	91.0	99.4	157.3	150.7	110.6	90.2	50.1
87.5°	32.9	42.8	103.2	84.5	51.0	46.3	78.4	73.9	52.5	38.2	24.9
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°	1153.4	1153.4	1153.4	1153.4	1153.4	1153.4	1153.4	1153.4	1153.4	1153.4	1153.4
2.5°	1152.2	1161.4	1173.3	1180.5	1184.4	1187.1	1191.3	1190.9	1192.0	1192.4	1193.9
5°	1159.9	1175.2	1192.4	1197.1	1197.1	1192.8	1188.6	1181.7	1179.0	1178.3	1179.0
7.5°	1179.8	1196.6	1211.5	1206.2	1194.8	1178.0	1156.1	1137.0	1126.7	1123.1	1122.4
10°	1205.0	1225.4	1231.5	1211.1	1177.5	1137.0	1093.8	1062.4	1044.4	1039.5	1038.0
12.5°	1235.6	1254.8	1246.3	1203.5	1141.2	1075.7	1016.1	966.1	928.6	916.6	915.9
15°	1269.3	1284.3	1254.8	1179.8	1086.9	990.6	884.2	797.8	751.0	736.2	735.0
17.5°	1300.6	1308.3	1249.8	1138.5	1007.0	850.9	709.7	643.2	627.1	631.0	631.7
20°	1327.4	1327.4	1233.0	1079.3	881.1	666.9	577.9	576.7	588.2	599.7	601.9
22.5°	1356.9	1339.3	1203.5	995.5	702.9	545.8	532.7	543.4	556.4	569.0	571.0
25°	1393.2	1348.8	1162.6	868.5	552.7	495.6	500.6	509.3	515.9	523.9	525.1
27.5°	1433.7	1361.1	1108.7	693.7	479.5	464.3	468.0	471.1	470.4	473.4	474.1
30°	1482.3	1375.2	1034.9	542.3	449.4	437.5	430.6	428.0	428.0	432.8	434.9
32.5°	1547.3	1396.3	928.9	464.7	434.9	418.4	396.2	386.2	390.0	406.9	410.7
35°	1618.9	1418.8	785.6	438.2	431.8	409.6	375.2	356.8	357.2	372.9	377.8
37.5°	1696.9	1447.4	628.4	433.3	438.6	409.9	364.1	338.8	328.6	328.6	330.4
40°	1796.7	1476.9	508.6	436.7	453.2	414.5	358.4	324.7	295.6	296.4	297.9
42.5°	1926.7	1502.2	444.3	444.0	470.8	420.6	358.0	305.9	280.7	297.9	313.6
45°	2071.2	1514.8	416.1	450.4	484.9	424.5	351.9	302.8	282.7	333.9	363.8
47.5°	2237.6	1507.6	400.4	452.8	488.4	424.5	344.9	310.2	296.0	386.7	421.4
50°	2420.1	1486.5	385.1	448.2	487.2	423.7	351.5	317.4	301.0	395.8	419.9
52.5°	2634.6	1468.9	369.1	438.2	479.2	419.5	359.1	314.3	285.2	359.9	376.7
55°	2879.3	1473.9	351.0	424.2	466.5	411.5	356.4	302.1	268.9	317.1	327.3
57.5°	3192.2	1533.1	329.6	406.1	449.4	398.1	346.9	296.4	263.9	287.6	293.7
60°	3541.3	1636.4	302.8	388.2	428.0	376.7	339.6	299.1	266.1	285.2	288.3
62.5°	3797.6	1696.5	279.9	361.7	398.9	353.0	330.4	302.5	272.3	293.4	292.6
65°	3867.2	1597.8	251.3	323.2	359.5	328.1	318.9	306.4	275.0	299.8	296.4
66°	3769.7	1491.5	238.6	305.2	339.6	315.9	313.2	305.9	273.8	300.6	294.9
67.5°	3532.9	1273.5	216.9	278.8	307.9	297.5	304.1	302.5	270.8	299.8	291.8
70°	2881.2	868.9	185.5	232.1	256.2	262.0	286.5	290.3	260.8	286.5	268.9
72.5°	2013.1	529.3	164.1	180.2	207.3	223.3	262.3	273.4	247.5	250.1	233.3
75°	973.0	281.2	148.8	139.7	161.0	186.7	233.3	250.5	226.3	209.2	203.1
77.5°	303.3	171.7	126.2	112.4	126.2	150.7	195.0	219.5	201.6	175.2	172.8
80°	162.9	126.2	97.1	90.2	99.9	118.2	153.4	183.2	173.2	157.3	140.4
82.5°	107.5	81.8	71.9	70.0	76.2	90.2	113.9	151.9	151.9	134.6	97.9
85°	55.5	50.1	49.3	49.3	53.2	60.1	77.7	117.0	124.7	71.1	58.9
87.5°	27.6	28.7	26.8	28.0	29.8	29.5	37.1	58.9	70.4	43.2	35.9
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)