

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: P200356

Luminaire Tested: **GPC-AF-02-LED-E1-T3R-7050-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P200356
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-7050-600
Description: GALLEON PEDESTRIAN LUMINAIRE
(2) 70 CRI, 5000K, 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: 8369 lumens
Efficiency: N/A
Efficacy: 126.8 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

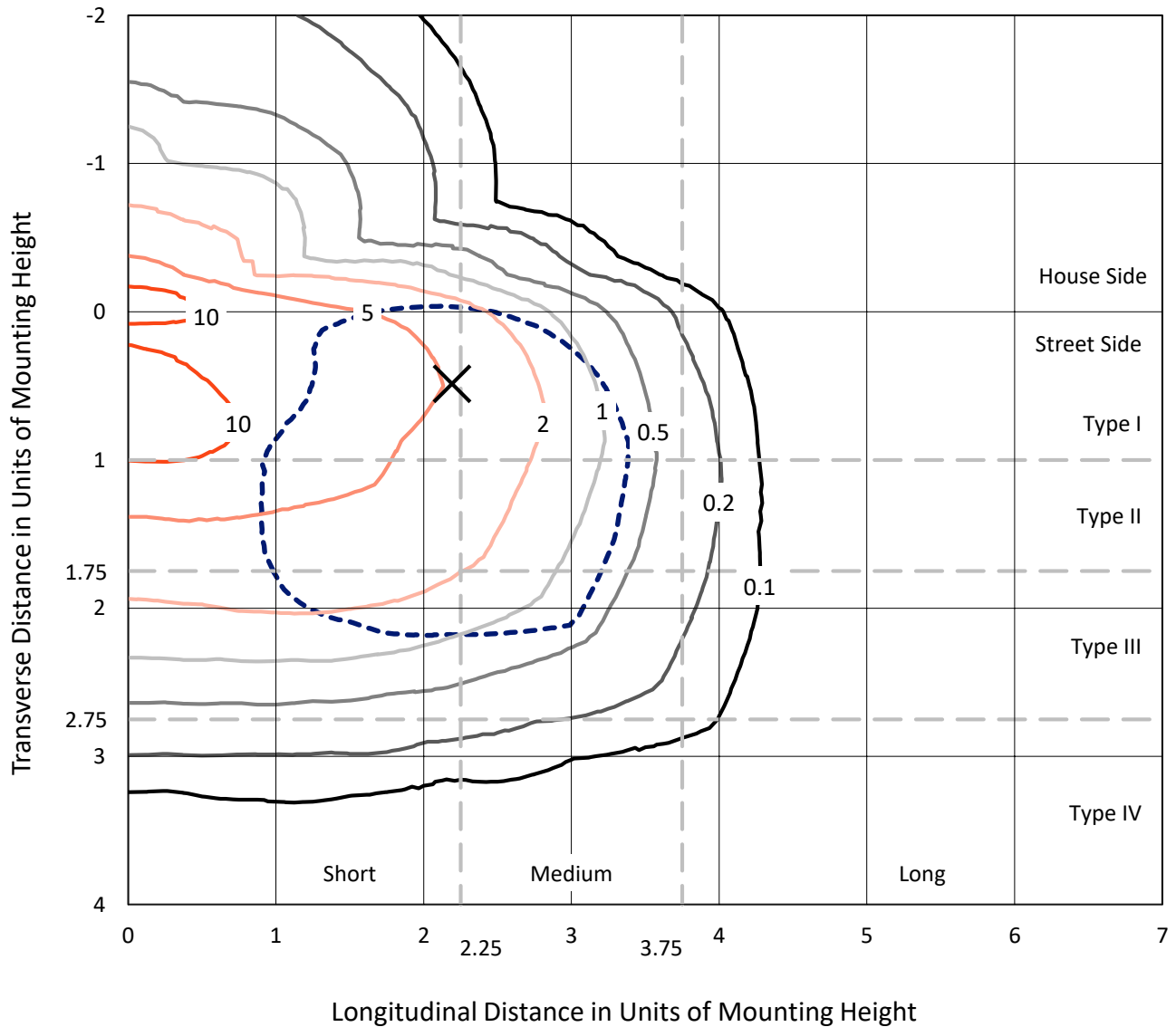
Input Watts (W): 66
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

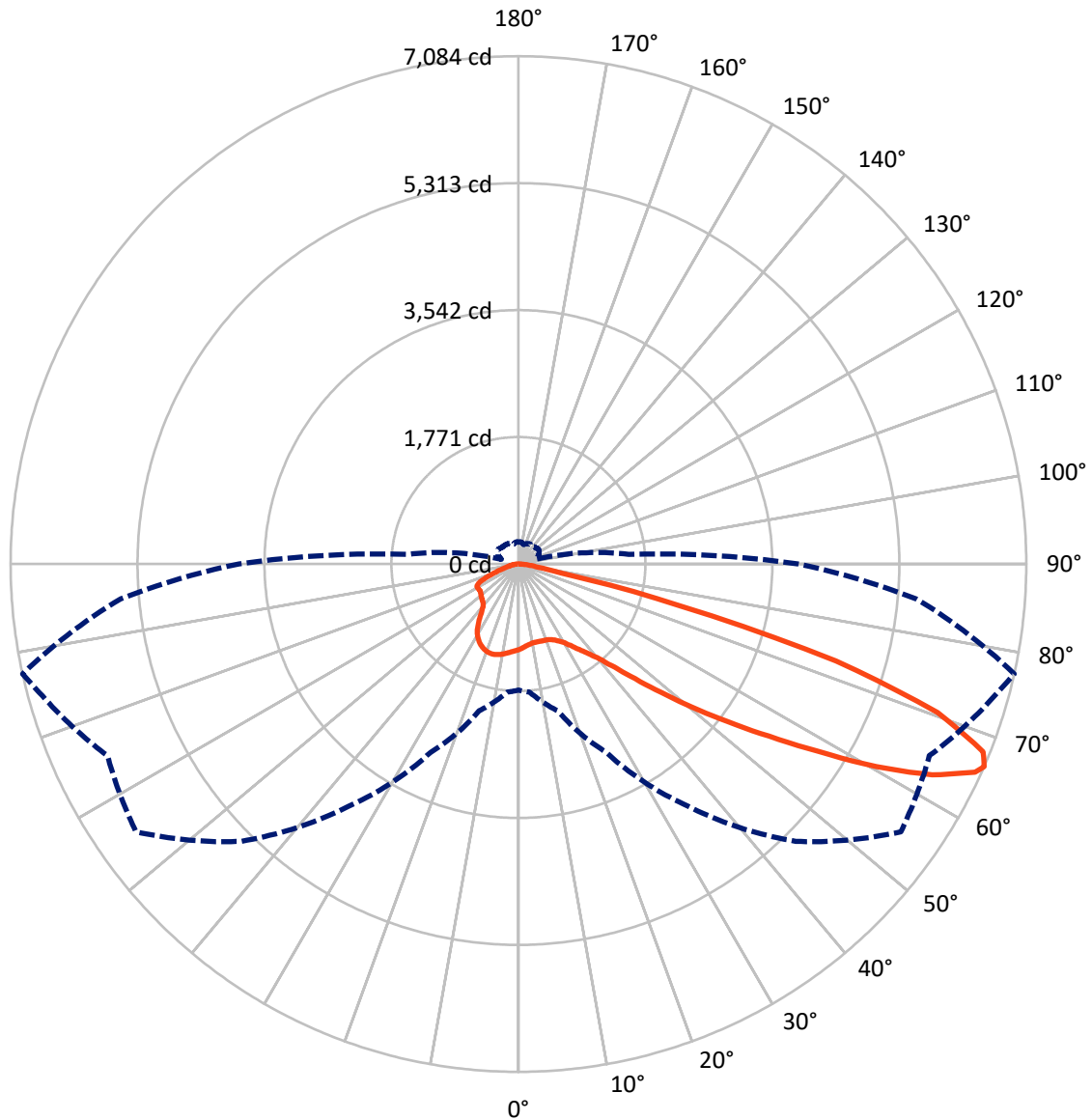
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 14.7 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	1429.8	0.0	1429.8
	% Fixture	17.1	0.0	17.1
Street Side	Lumens	6939.2	0.0	6939.2
	% Fixture	82.9	0.0	82.9
Total	Lumens	8369.0	0.0	8369.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	106.6	1.3
10°-20°	300.6	3.6
20°-30°	513.0	6.1
30°-40°	821.2	9.8
40°-50°	1268.7	15.2
50°-60°	1799.5	21.5
60°-70°	2407.3	28.8
70°-80°	1045.4	12.5
80°-90°	106.6	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°	8369.0	100.0
0°-180°	8369.0	100.0



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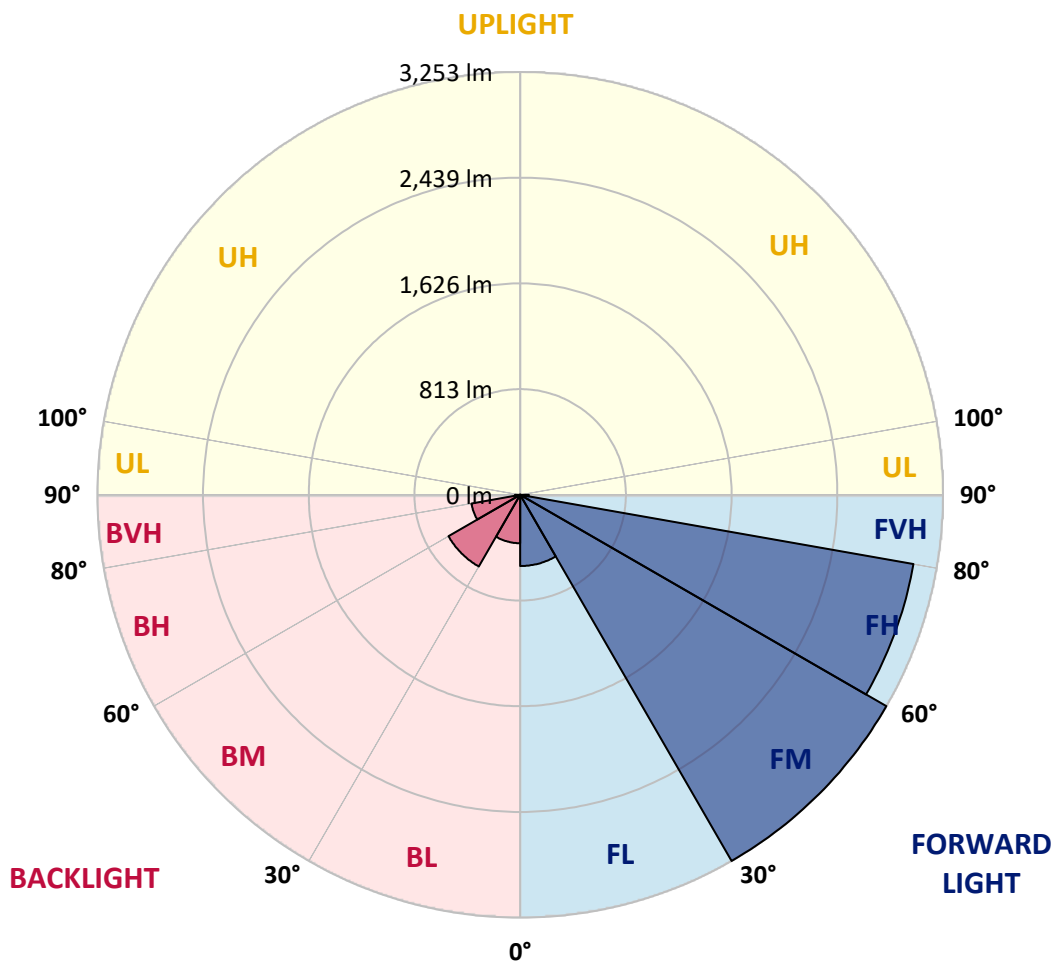
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	547.8	6.5			
FM	(30°-60°)	3252.6	38.9			
FH	(60°-80°)	3071.9	36.7			G2/5000
FVH	(80°-90°)	66.9	0.8			G1/100
BL	(0°-30°)	372.4	4.4	B1/500		
BM	(30°-60°)	636.9	7.6	B1/1000		
BH	(60°-80°)	380.8	4.5	B1/500		G1/500
BVH	(80°-90°)	39.7	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°	1192.6	1192.6	1192.6	1192.6	1192.6	1192.6	1192.6	1192.6	1192.6	1192.6	1192.6
2.5°	1055.0	1062.1	1068.1	1073.6	1084.7	1102.9	1123.8	1140.8	1165.3	1170.1	1183.1
5°	958.1	958.1	962.9	971.2	986.2	1013.5	1042.0	1079.9	1133.3	1146.0	1180.8
7.5°	911.1	911.5	914.2	921.4	934.4	959.3	990.6	1035.2	1107.6	1128.6	1187.9
10°	928.5	924.5	918.6	915.0	917.0	931.6	961.3	1011.1	1091.8	1118.7	1203.7
12.5°	1025.8	1018.2	997.7	970.4	944.3	933.6	951.0	999.7	1085.1	1116.3	1224.7
15°	1184.7	1181.6	1143.2	1086.6	1023.4	970.4	958.5	995.3	1085.9	1119.1	1249.6
17.5°	1384.0	1379.7	1329.0	1246.8	1143.6	1040.4	985.0	998.9	1088.6	1123.8	1273.7
20°	1585.3	1571.8	1517.3	1419.2	1286.7	1135.7	1028.9	1008.0	1092.2	1129.0	1299.0
22.5°	1735.6	1724.5	1675.4	1580.1	1427.5	1246.0	1087.8	1023.8	1103.7	1144.0	1330.2
25°	1867.6	1868.4	1819.8	1727.6	1569.9	1363.1	1163.8	1066.1	1132.9	1174.8	1372.9
27.5°	2030.9	2021.4	1976.0	1884.6	1710.6	1481.3	1255.5	1124.2	1176.4	1218.7	1429.1
30°	2226.3	2219.6	2167.0	2063.4	1866.8	1608.2	1360.3	1191.8	1232.6	1276.5	1502.6
32.5°	2456.0	2452.9	2398.3	2265.0	2047.2	1757.7	1483.3	1281.2	1316.4	1361.9	1608.2
35°	2725.7	2726.1	2661.7	2501.5	2244.5	1931.7	1622.9	1396.3	1418.4	1465.9	1734.0
37.5°	2891.8	2912.0	2887.8	2724.5	2467.9	2126.2	1804.0	1548.9	1534.7	1582.5	1868.8
40°	2927.4	2951.9	3028.2	2945.2	2717.8	2340.6	1964.5	1695.6	1677.8	1736.3	2042.4
42.5°	2877.6	2911.6	3072.9	3131.4	2983.1	2604.7	2180.4	1913.5	1891.0	1969.6	2258.3
45°	2847.9	2873.2	3059.9	3228.3	3213.3	2903.3	2455.2	2187.1	2178.8	2282.0	2507.4
47.5°	2796.5	2819.4	2999.0	3250.8	3348.5	3176.9	2785.4	2521.7	2537.9	2673.1	2788.6
50°	2824.2	2833.7	2930.9	3193.5	3387.7	3377.4	3154.4	2909.2	2964.6	3133.4	3106.9
52.5°	2820.2	2844.7	2923.0	3099.4	3392.8	3501.2	3517.8	3341.4	3458.1	3651.8	3460.0
55°	2280.1	2325.1	2830.1	3075.7	3411.0	3622.6	3841.2	3796.9	4014.4	4240.2	3858.6
57.5°	2177.2	2205.7	2485.7	3125.5	3507.5	3854.3	4201.1	4298.3	4662.1	4924.3	4344.2
60°	2157.1	2192.3	2482.1	3186.4	3703.2	4231.9	4734.5	4905.3	5450.2	5737.3	4907.3
62.5°	2094.2	2132.2	2458.8	3178.5	3981.2	4754.3	5417.4	5550.7	6197.6	6476.8	5378.3
65°	1894.9	1930.5	2268.6	3050.8	4168.6	5311.8	6225.7	6142.2	6787.6	6997.6	5613.2
66°	1758.5	1793.3	2118.7	2900.5	4125.1	5470.0	6512.0	6325.3	6919.7	7084.2	5567.3
67.5°	1509.0	1536.3	1827.7	2564.0	3893.8	5514.3	6752.8	6462.9	6933.5	6991.6	5305.1
70°	953.4	961.3	1187.9	1770.0	2947.5	4782.4	6386.2	6121.3	6361.7	6204.3	4447.4
72.5°	413.6	410.9	570.2	900.4	1668.7	3208.9	5165.9	5050.9	4990.3	4631.3	3113.2
75°	230.1	233.3	296.2	418.0	678.2	1576.2	3379.4	3233.8	2730.5	2329.9	1411.7
77.5°	184.7	189.0	245.6	296.6	304.5	549.7	1581.3	1286.7	774.7	621.6	392.3
80°	145.9	153.8	214.3	230.9	205.2	226.6	510.9	408.5	306.5	281.2	203.3
82.5°	115.5	121.0	183.9	174.8	143.5	152.6	244.8	238.4	199.3	181.5	117.4
85°	83.0	93.3	151.1	131.7	94.1	102.8	162.5	155.8	114.3	93.3	51.8
87.5°	34.0	44.3	106.8	87.4	52.6	47.8	81.1	76.3	54.2	39.5	25.7
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°	1192.6	1192.6	1192.6	1192.6	1192.6	1192.6	1192.6	1192.6	1192.6	1192.6	1192.6
2.5°	1191.4	1200.9	1213.2	1220.7	1224.7	1227.4	1231.8	1231.4	1232.6	1233.0	1234.5
5°	1199.3	1215.2	1233.0	1237.7	1237.7	1233.4	1229.0	1221.9	1219.1	1218.3	1219.1
7.5°	1219.9	1237.3	1252.7	1247.2	1235.3	1217.9	1195.4	1175.6	1164.9	1161.4	1160.6
10°	1246.0	1267.0	1273.3	1252.3	1217.5	1175.6	1130.9	1098.5	1079.9	1074.8	1073.2
12.5°	1277.6	1297.4	1288.7	1244.4	1180.0	1112.3	1050.7	998.9	960.1	947.9	947.1
15°	1312.4	1327.9	1297.4	1219.9	1123.8	1024.2	914.2	824.9	776.6	761.2	760.0
17.5°	1344.9	1352.8	1292.3	1177.2	1041.2	879.8	733.9	665.1	648.5	652.5	653.3
20°	1372.5	1372.5	1274.9	1115.9	911.1	689.6	597.5	596.3	608.2	620.0	622.4
22.5°	1403.0	1384.8	1244.4	1029.3	726.8	564.3	550.8	561.9	575.4	588.4	590.4
25°	1440.6	1394.7	1202.1	898.0	571.4	512.5	517.6	526.7	533.4	541.7	542.9
27.5°	1482.5	1407.3	1146.4	717.3	495.9	480.1	484.0	487.2	486.4	489.5	490.3
30°	1532.7	1422.0	1070.0	560.7	464.6	452.4	445.3	442.5	442.5	447.6	449.6
32.5°	1599.9	1443.7	960.5	480.4	449.6	432.6	409.7	399.4	403.3	420.7	424.7
35°	1673.9	1467.1	812.2	453.2	446.4	423.5	387.9	368.9	369.3	385.5	390.7
37.5°	1754.5	1496.7	649.7	448.0	453.6	423.9	376.5	350.4	339.7	339.7	341.7
40°	1857.7	1527.2	525.9	451.6	468.6	428.6	370.5	335.7	305.7	306.5	308.0
42.5°	1992.2	1553.3	459.5	459.1	486.8	435.0	370.1	316.3	290.2	308.0	324.3
45°	2141.7	1566.3	430.2	465.8	501.4	438.9	363.8	313.2	292.2	345.2	376.1
47.5°	2313.7	1558.8	414.0	468.2	505.0	438.9	356.7	320.7	306.1	399.8	435.8
50°	2502.3	1537.0	398.2	463.4	503.8	438.1	363.4	328.2	311.2	409.3	434.2
52.5°	2724.1	1518.9	381.6	453.2	495.5	433.8	371.3	325.0	295.0	372.1	389.5
55°	2977.2	1524.0	363.0	438.5	482.4	425.5	368.5	312.4	278.0	327.8	338.5
57.5°	3300.7	1585.3	340.9	419.9	464.6	411.6	358.7	306.5	272.8	297.4	303.7
60°	3661.7	1692.1	313.2	401.4	442.5	389.5	351.1	309.2	275.2	295.0	298.2
62.5°	3926.6	1754.1	289.5	374.1	412.4	365.0	341.7	312.8	281.5	303.3	302.5
65°	3998.6	1652.1	259.8	334.1	371.7	339.3	329.8	316.7	284.3	310.0	306.5
66°	3897.8	1542.2	246.7	315.6	351.1	326.6	323.9	316.3	283.1	310.8	304.9
67.5°	3653.0	1316.8	224.2	288.3	318.3	307.6	314.4	312.8	280.0	310.0	301.7
70°	2979.2	898.4	191.8	240.0	264.9	270.9	296.2	300.1	269.7	296.2	278.0
72.5°	2081.6	547.3	169.6	186.2	214.3	230.9	271.3	282.7	255.8	258.6	241.2
75°	1006.0	290.6	153.8	144.3	166.5	193.0	241.2	259.0	234.1	216.3	210.0
77.5°	313.6	177.5	130.5	116.3	130.5	155.8	201.7	227.0	208.4	181.1	178.7
80°	168.5	130.5	100.4	93.3	103.2	122.2	158.6	189.4	179.1	162.5	145.1
82.5°	111.1	84.6	74.3	72.4	78.7	93.3	117.8	157.0	157.0	139.2	101.2
85°	57.3	51.8	51.0	51.0	55.0	62.1	80.3	121.0	128.9	73.6	60.9
87.5°	28.5	29.7	27.7	28.9	30.8	30.4	38.4	60.9	72.8	44.7	37.2
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)