

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: **GWC-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: GWC-AF-02-LED-E1-T3R-7030-600
Description: GALLEON WALL 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: 7956.8 lumens
Efficiency: N/A
Efficacy: 120.6 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

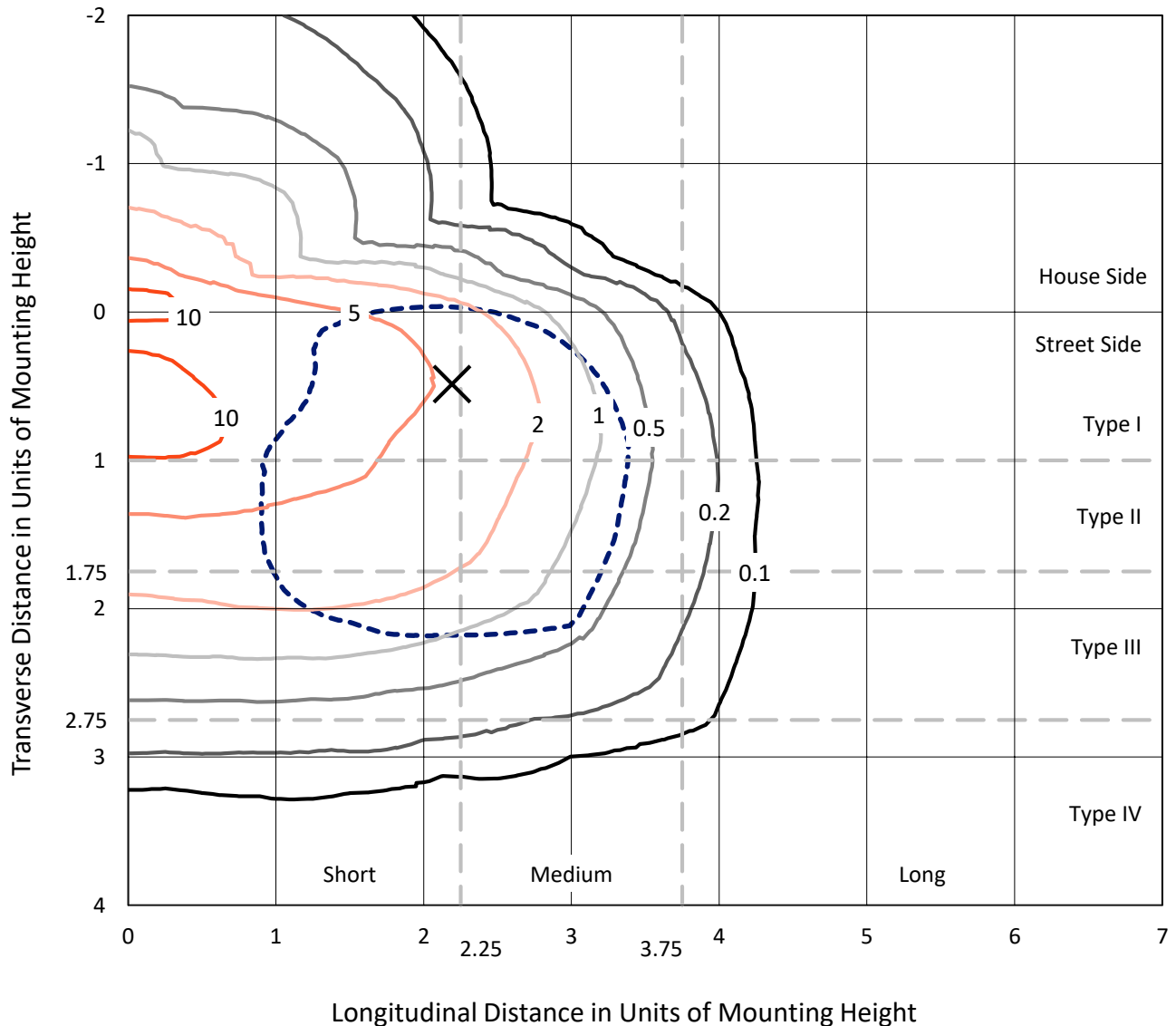


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Iso-Footcandle Lines of Horizontal Illumination

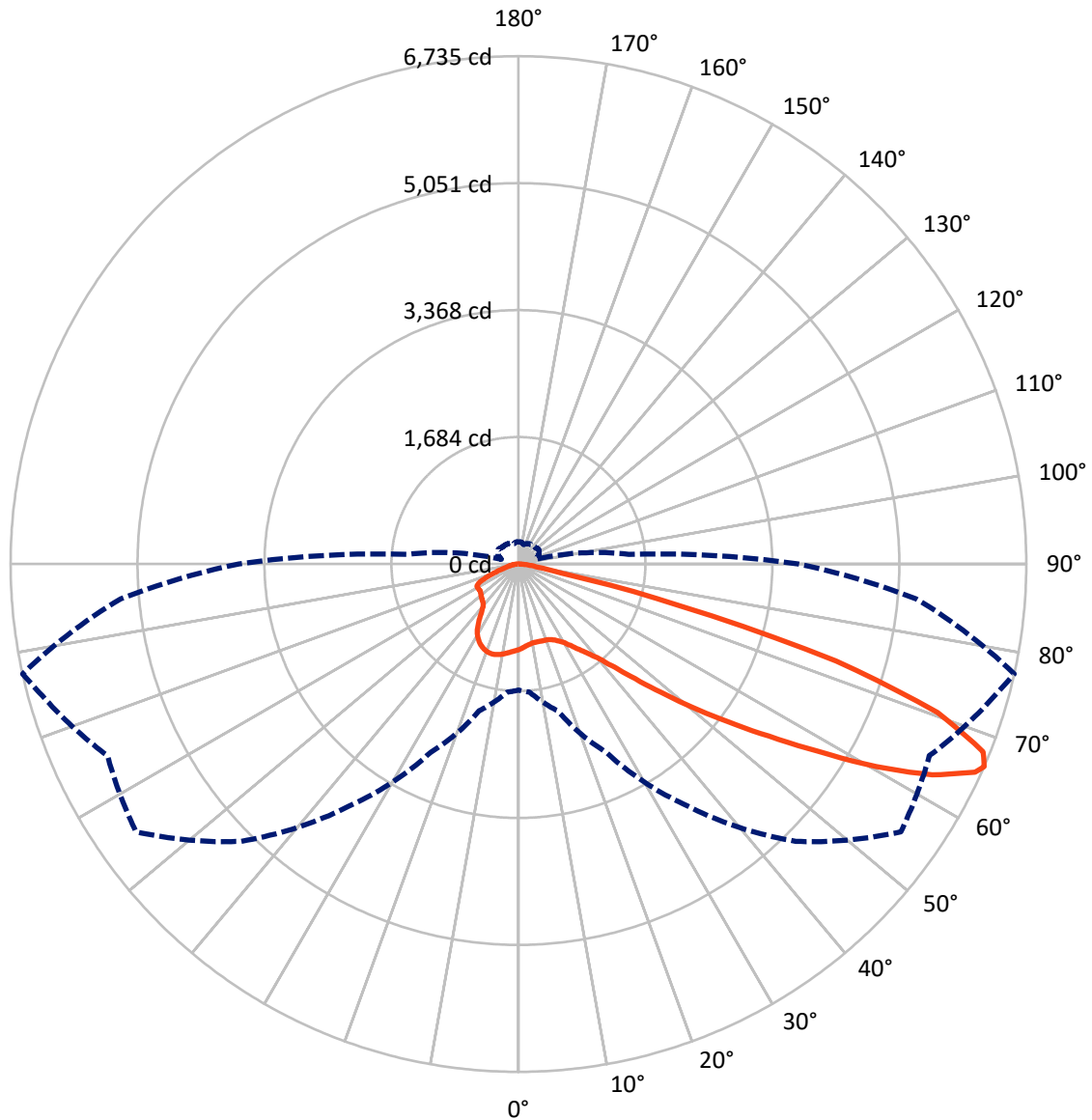
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 14 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	1359.4	0.0	1359.4
	% Fixture	17.1	0.0	17.1
Street Side	Lumens	6597.4	0.0	6597.4
	% Fixture	82.9	0.0	82.9
Total	Lumens	7956.8	0.0	7956.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	101.3	1.3
10°-20°	285.8	3.6
20°-30°	487.7	6.1
30°-40°	780.8	9.8
40°-50°	1206.2	15.2
50°-60°	1710.9	21.5
60°-70°	2288.7	28.8
70°-80°	993.9	12.5
80°-90°	101.4	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°	7956.8	100.0
0°-180°	7956.8	100.0



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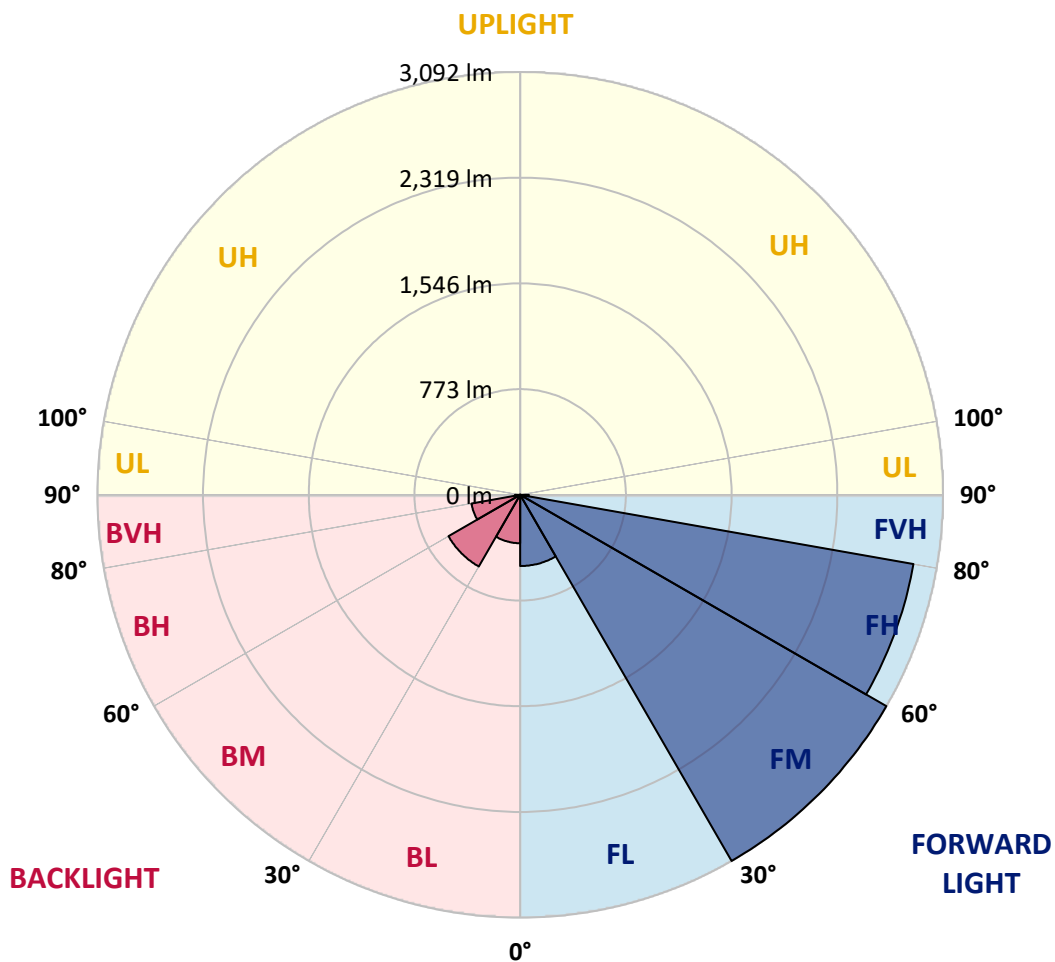
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	520.8	6.5			
FM	(30°-60°)	3092.4	38.9			
FH	(60°-80°)	2920.6	36.7			G2/5000
FVH	(80°-90°)	63.6	0.8			G1/100
BL	(0°-30°)	354.0	4.4	B1/500		
BM	(30°-60°)	605.5	7.6	B1/1000		
BH	(60°-80°)	362.0	4.5	B1/500		G1/500
BVH	(80°-90°)	37.8	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°	1133.9	1133.9	1133.9	1133.9	1133.9	1133.9	1133.9	1133.9	1133.9	1133.9	1133.9
2.5°	1003.1	1009.8	1015.4	1020.7	1031.2	1048.5	1068.5	1084.6	1107.9	1112.4	1124.9
5°	910.9	910.9	915.4	923.4	937.7	963.6	990.6	1026.7	1077.5	1089.5	1122.6
7.5°	866.2	866.6	869.2	876.0	888.4	912.1	941.7	984.3	1053.0	1073.0	1129.4
10°	882.8	879.0	873.3	870.0	871.8	885.8	913.9	961.3	1038.0	1063.5	1144.4
12.5°	975.3	968.1	948.5	922.6	897.8	887.6	904.2	950.4	1031.6	1061.3	1164.3
15°	1126.4	1123.4	1086.9	1033.2	973.0	922.6	911.4	946.3	1032.4	1064.0	1188.0
17.5°	1315.8	1311.7	1263.5	1185.3	1087.3	989.1	936.5	949.7	1035.0	1068.5	1210.9
20°	1507.1	1494.4	1442.5	1349.3	1223.4	1079.8	978.3	958.3	1038.4	1073.3	1235.0
22.5°	1650.1	1639.6	1593.0	1502.3	1357.2	1184.6	1034.2	973.3	1049.3	1087.6	1264.7
25°	1775.7	1776.4	1730.1	1642.6	1492.5	1295.9	1106.4	1013.6	1077.1	1116.9	1305.3
27.5°	1930.9	1921.8	1878.7	1791.8	1626.4	1408.3	1193.6	1068.8	1118.4	1158.7	1358.7
30°	2116.6	2110.2	2060.2	1961.7	1774.9	1529.1	1293.3	1133.1	1171.8	1213.6	1428.6
32.5°	2335.0	2332.0	2280.2	2153.4	1946.3	1671.2	1410.2	1218.1	1251.5	1294.8	1529.1
35°	2591.4	2591.8	2530.5	2378.3	2133.9	1836.6	1542.9	1327.4	1348.5	1393.6	1648.6
37.5°	2749.3	2768.5	2745.5	2590.3	2346.3	2021.5	1715.1	1472.6	1459.0	1504.6	1776.7
40°	2783.1	2806.4	2879.1	2800.1	2583.9	2225.3	1867.7	1612.1	1595.2	1650.9	1941.8
42.5°	2735.8	2768.1	2921.5	2977.1	2836.2	2476.4	2073.0	1819.3	1797.8	1872.6	2147.1
45°	2707.6	2731.7	2909.1	3069.3	3055.0	2760.3	2334.3	2079.4	2071.5	2169.6	2383.9
47.5°	2658.8	2680.6	2851.2	3090.8	3183.6	3020.4	2648.2	2397.4	2412.9	2541.5	2651.2
50°	2685.1	2694.1	2786.6	3036.2	3220.8	3211.1	2998.9	2765.8	2818.5	2979.1	2953.8
52.5°	2681.3	2704.6	2779.1	2946.7	3225.7	3328.7	3344.5	3176.8	3287.7	3471.9	3289.6
55°	2167.7	2210.6	2690.7	2924.2	3243.0	3444.1	3652.0	3609.9	3816.7	4031.3	3668.5
57.5°	2070.0	2097.0	2363.3	2971.5	3334.7	3664.4	3994.2	4086.6	4432.5	4681.8	4130.2
60°	2050.8	2084.2	2359.8	3029.4	3520.8	4023.5	4501.2	4663.7	5181.8	5454.7	4665.6
62.5°	1991.0	2027.1	2337.7	3021.9	3785.1	4520.0	5150.5	5277.2	5892.3	6157.8	5113.3
65°	1801.5	1835.4	2156.8	2900.4	3963.3	5050.2	5919.0	5839.6	6453.3	6652.8	5336.6
66°	1671.9	1705.0	2014.3	2757.6	3922.0	5200.6	6191.2	6013.7	6578.8	6735.2	5293.0
67.5°	1434.6	1460.5	1737.6	2437.7	3702.0	5242.7	6420.2	6144.6	6591.9	6647.2	5043.7
70°	906.4	913.9	1129.4	1682.8	2802.4	4546.8	6071.6	5819.8	6048.3	5898.7	4228.3
72.5°	393.2	390.6	542.1	856.0	1586.5	3050.9	4911.4	4802.1	4744.5	4403.2	2959.8
75°	218.8	221.8	281.6	397.4	644.8	1498.5	3212.9	3074.5	2595.9	2215.1	1342.2
77.5°	175.6	179.7	233.5	281.9	289.5	522.5	1503.4	1223.4	736.5	591.0	372.9
80°	138.8	146.3	203.8	219.5	195.2	215.5	485.7	388.4	291.4	267.3	193.2
82.5°	109.8	115.0	174.9	166.2	136.5	145.1	232.8	226.7	189.5	172.6	111.7
85°	78.9	88.7	143.6	125.2	89.5	97.7	154.6	148.1	108.7	88.7	49.3
87.5°	32.3	42.1	101.5	83.1	50.1	45.5	77.1	72.6	51.6	37.6	24.5
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°	1133.9	1133.9	1133.9	1133.9	1133.9	1133.9	1133.9	1133.9	1133.9	1133.9	1133.9
2.5°	1132.7	1141.7	1153.4	1160.5	1164.3	1167.0	1171.1	1170.7	1171.8	1172.2	1173.7
5°	1140.2	1155.3	1172.2	1176.8	1176.8	1172.6	1168.5	1161.7	1159.0	1158.3	1159.0
7.5°	1159.8	1176.3	1191.0	1185.8	1174.5	1158.0	1136.5	1117.7	1107.6	1104.1	1103.4
10°	1184.6	1204.6	1210.6	1190.6	1157.5	1117.7	1075.3	1044.4	1026.7	1021.9	1020.4
12.5°	1214.7	1233.5	1225.2	1183.1	1121.9	1057.5	998.9	949.7	912.9	901.1	900.4
15°	1247.8	1262.5	1233.5	1159.8	1068.5	973.8	869.2	784.3	738.3	723.7	722.5
17.5°	1278.6	1286.1	1228.6	1119.2	989.9	836.5	697.7	632.3	616.5	620.3	621.0
20°	1304.9	1304.9	1212.1	1061.0	866.2	655.6	568.1	566.9	578.2	589.5	591.7
22.5°	1333.9	1316.6	1183.1	978.6	691.0	536.5	523.7	534.2	547.0	559.4	561.3
25°	1369.6	1325.9	1142.9	853.8	543.3	487.2	492.1	500.7	507.2	515.0	516.2
27.5°	1409.4	1338.0	1089.9	681.9	471.4	456.4	460.1	463.1	462.4	465.4	466.1
30°	1457.2	1351.9	1017.4	533.1	441.8	430.1	423.3	420.7	420.7	425.5	427.5
32.5°	1521.1	1372.6	913.2	456.8	427.5	411.3	389.5	379.7	383.4	400.0	403.7
35°	1591.5	1394.8	772.3	430.8	424.5	402.7	368.8	350.8	351.1	366.6	371.4
37.5°	1668.1	1422.9	617.7	426.0	431.2	403.0	357.9	333.1	323.0	323.0	324.8
40°	1766.2	1451.9	500.0	429.3	445.5	407.5	352.3	319.2	290.6	291.4	292.9
42.5°	1894.0	1476.7	436.8	436.5	462.8	413.5	351.9	300.7	275.9	292.9	308.3
45°	2036.1	1489.1	409.0	442.8	476.7	417.3	345.9	297.7	277.9	328.2	357.6
47.5°	2199.7	1482.0	393.6	445.1	480.1	417.3	339.1	304.9	291.0	380.1	414.3
50°	2379.1	1461.3	378.6	440.6	478.9	416.5	345.5	312.0	295.9	389.1	412.8
52.5°	2589.9	1444.0	362.8	430.8	471.1	412.4	353.0	309.0	280.4	353.8	370.3
55°	2830.5	1448.9	345.1	417.0	458.6	404.5	350.4	297.0	264.3	311.7	321.8
57.5°	3138.1	1507.1	324.0	399.2	441.8	391.4	341.0	291.4	259.4	282.7	288.7
60°	3481.3	1608.7	297.7	381.6	420.7	370.3	333.8	294.0	261.6	280.4	283.4
62.5°	3733.2	1667.7	275.2	355.6	392.1	347.0	324.8	297.4	267.7	288.4	287.6
65°	3801.7	1570.7	247.0	317.7	353.4	322.5	313.5	301.2	270.3	294.7	291.4
66°	3705.8	1466.2	234.6	300.0	333.8	310.5	307.9	300.7	269.2	295.5	289.9
67.5°	3473.0	1251.9	213.2	274.1	302.7	292.5	298.9	297.4	266.2	294.7	286.9
70°	2832.4	854.2	182.4	228.2	251.9	257.6	281.6	285.4	256.4	281.6	264.3
72.5°	1979.0	520.3	161.3	177.1	203.8	219.5	257.9	268.8	243.3	245.9	229.3
75°	956.5	276.4	146.3	137.3	158.3	183.5	229.3	246.3	222.5	205.7	199.7
77.5°	298.2	168.8	124.1	110.5	124.1	148.1	191.7	215.8	198.2	172.2	169.9
80°	160.1	124.1	95.5	88.7	98.2	116.2	150.8	180.1	170.3	154.6	138.0
82.5°	105.7	80.4	70.7	68.8	74.9	88.7	112.0	149.3	149.3	132.3	96.2
85°	54.6	49.3	48.5	48.5	52.3	59.1	76.4	115.0	122.6	69.9	57.9
87.5°	27.1	28.2	26.3	27.5	29.3	29.0	36.5	57.9	69.2	42.5	35.3
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)