

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: P200201

Luminaire Tested: **GWC-AF-01-LED-E1-T3R-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P200201
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-01-LED-E1-T3R-1200
Description: GALLEON WALL LUMINAIRE
(1) 70 CRI, 4000K, 1200mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7293.7 lumens
Efficiency: N/A
Efficacy: 108.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short - Full Cutoff
BUG Rating: B1 - U0 - G2

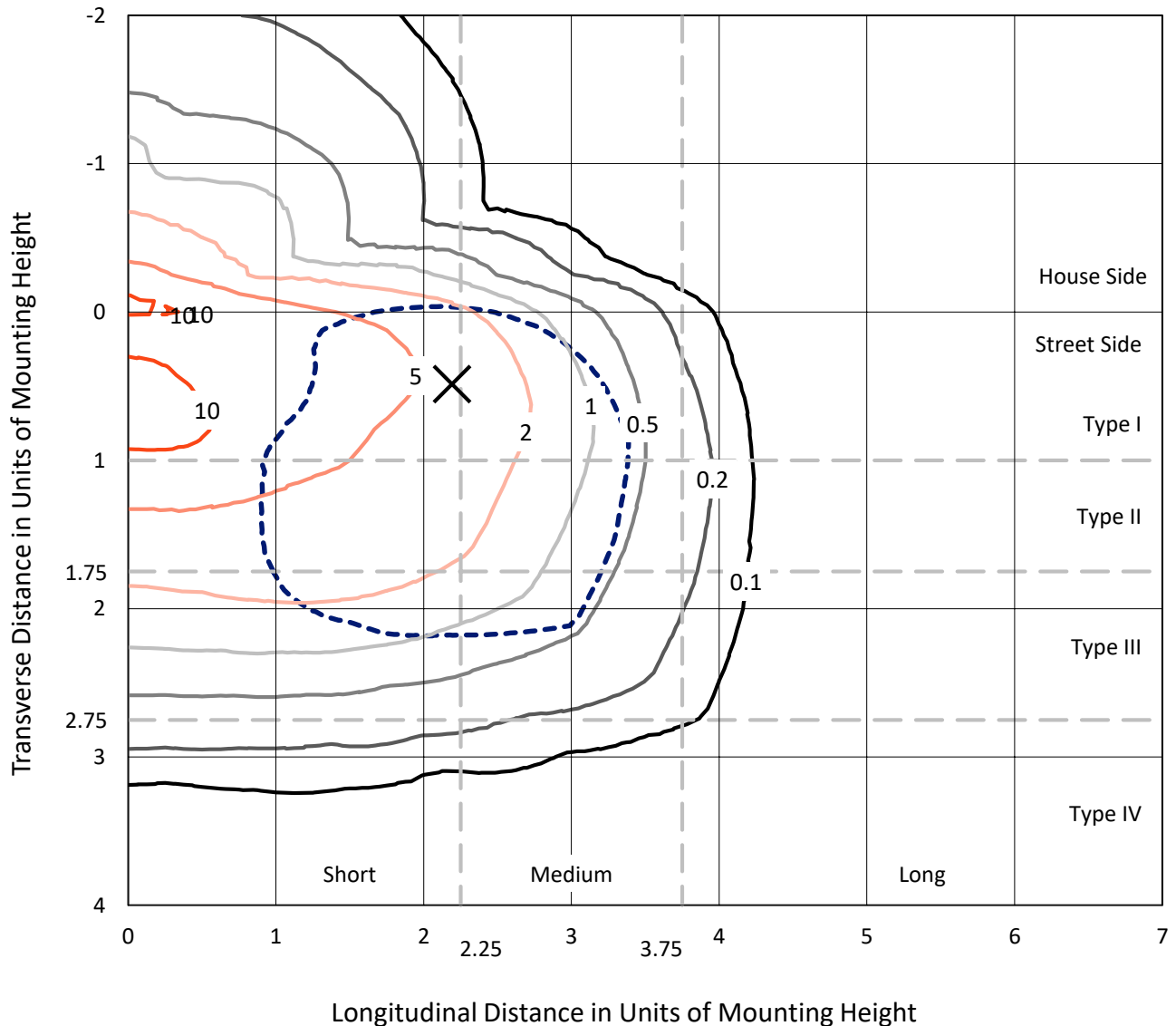
Input Watts (W): 67
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

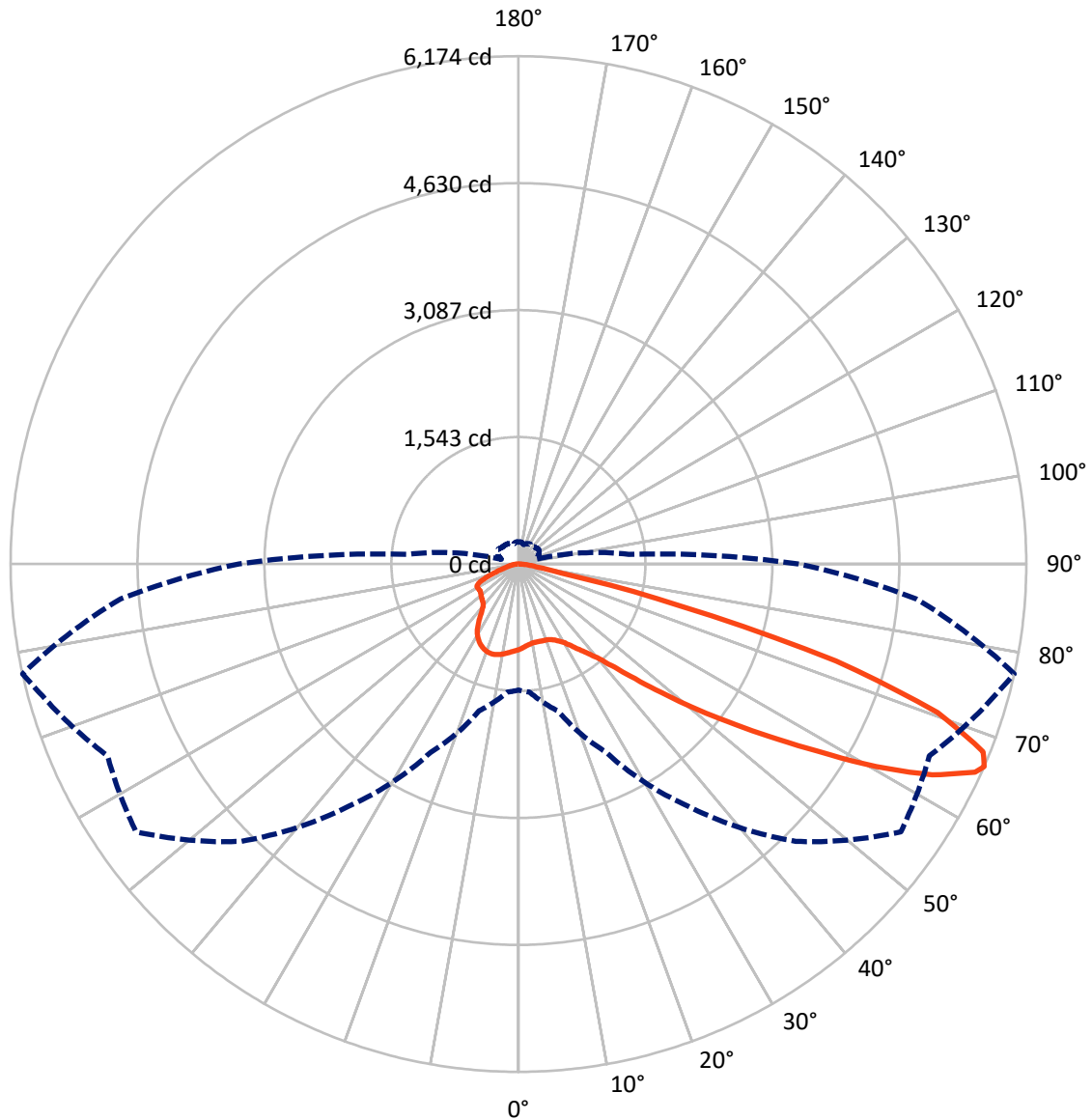
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 12.8 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	1246.1	0.0	1246.1
	% Fixture	17.1	0.0	17.1
Street Side	Lumens	6047.6	0.0	6047.6
	% Fixture	82.9	0.0	82.9
Total	Lumens	7293.7	0.0	7293.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	92.9	1.3
10°-20°	262.0	3.6
20°-30°	447.1	6.1
30°-40°	715.7	9.8
40°-50°	1105.7	15.2
50°-60°	1568.3	21.5
60°-70°	2098.0	28.8
70°-80°	911.1	12.5
80°-90°	92.9	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°	7293.7	100.0
0°-180°	7293.7	100.0



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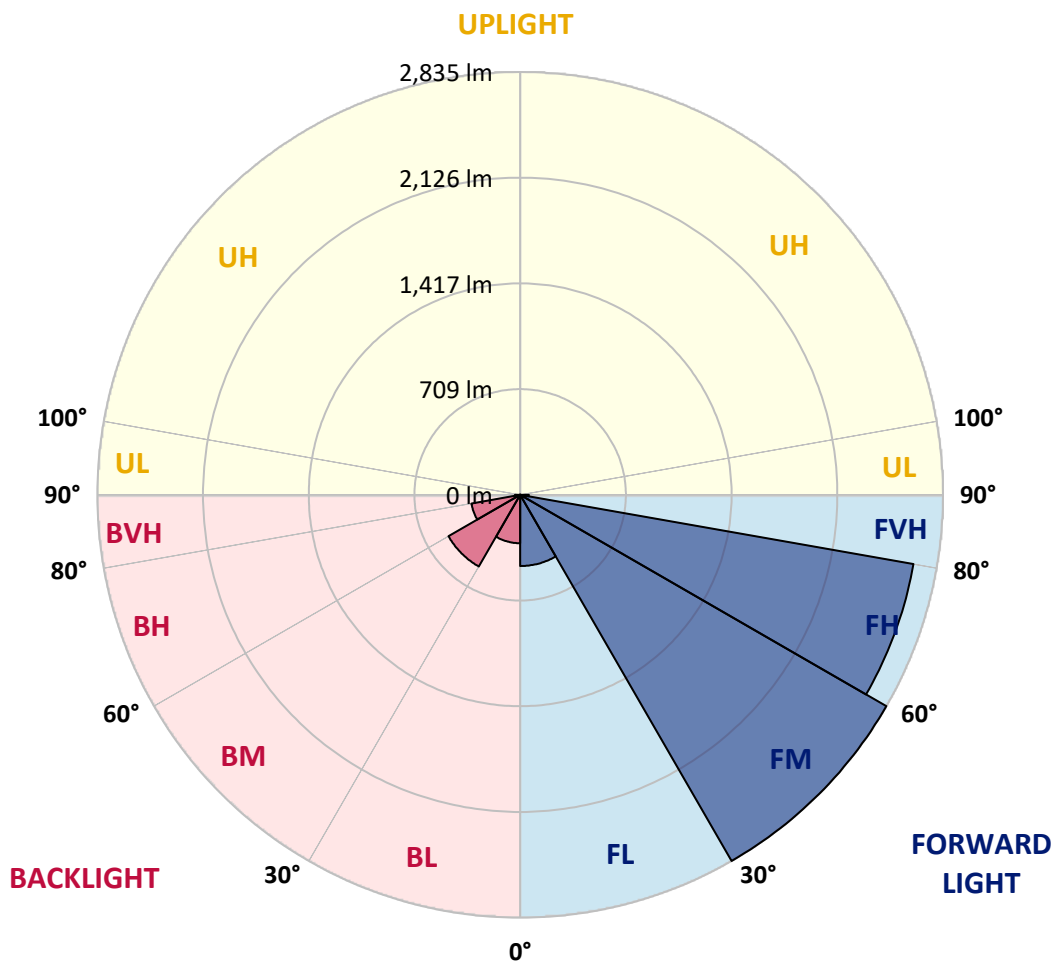
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	477.4	6.5			
FM	(30°-60°)	2834.7	38.9			
FH	(60°-80°)	2677.2	36.7			G2/5000
FVH	(80°-90°)	58.3	0.8			G1/100
BL	(0°-30°)	324.5	4.4	B1/500		
BM	(30°-60°)	555.1	7.6	B1/1000		
BH	(60°-80°)	331.9	4.5	B1/500		G1/500
BVH	(80°-90°)	34.6	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°	1039.4	1039.4	1039.4	1039.4	1039.4	1039.4	1039.4	1039.4	1039.4	1039.4	1039.4
2.5°	919.4	925.7	930.8	935.7	945.3	961.2	979.4	994.2	1015.6	1019.8	1031.1
5°	835.0	835.0	839.1	846.4	859.5	883.2	908.1	941.1	987.7	998.7	1029.1
7.5°	794.0	794.3	796.8	803.0	814.4	836.1	863.3	902.2	965.3	983.6	1035.2
10°	809.2	805.7	800.6	797.5	799.1	811.9	837.8	881.2	951.5	975.0	1049.0
12.5°	894.0	887.4	869.5	845.7	823.0	813.7	828.8	871.2	945.6	972.8	1067.2
15°	1032.5	1029.7	996.3	947.0	891.9	845.7	835.3	867.5	946.3	975.3	1089.0
17.5°	1206.2	1202.4	1158.3	1086.6	996.7	906.7	858.5	870.5	948.8	979.4	1110.0
20°	1381.6	1369.8	1322.3	1236.8	1121.4	989.7	896.7	878.4	951.9	983.9	1132.1
22.5°	1512.5	1502.9	1460.2	1377.1	1244.1	1085.9	948.1	892.2	961.9	997.0	1159.3
25°	1627.6	1628.3	1586.0	1505.7	1368.2	1188.0	1014.3	929.1	987.4	1023.9	1196.5
27.5°	1770.0	1761.7	1722.0	1642.4	1490.8	1291.0	1094.1	979.8	1025.2	1062.1	1245.4
30°	1940.2	1934.4	1888.6	1798.2	1627.0	1401.5	1185.5	1038.7	1074.2	1112.5	1309.6
32.5°	2140.4	2137.7	2090.1	1974.0	1784.1	1531.9	1292.7	1116.6	1147.2	1186.8	1401.5
35°	2375.5	2375.8	2319.6	2180.1	1956.1	1683.5	1414.3	1216.9	1236.1	1277.5	1511.2
37.5°	2520.2	2537.8	2516.8	2374.5	2150.8	1853.1	1572.2	1349.9	1337.5	1379.1	1628.6
40°	2551.2	2572.6	2639.1	2566.8	2368.5	2039.8	1712.1	1477.8	1462.2	1513.3	1779.9
42.5°	2507.8	2537.4	2678.1	2729.0	2599.8	2270.0	1900.2	1667.6	1648.0	1716.5	1968.2
45°	2482.0	2504.0	2666.7	2813.5	2800.4	2530.2	2139.7	1906.1	1898.9	1988.8	2185.2
47.5°	2437.2	2457.1	2613.6	2833.2	2918.3	2768.7	2427.6	2197.6	2211.8	2329.7	2430.2
50°	2461.3	2469.6	2554.3	2783.1	2952.3	2943.4	2749.1	2535.4	2583.7	2730.8	2707.6
52.5°	2457.8	2479.2	2547.5	2701.1	2956.8	3051.3	3065.8	2912.0	3013.7	3182.6	3015.5
55°	1987.1	2026.4	2466.4	2680.4	2972.7	3157.0	3347.6	3309.0	3498.6	3695.4	3362.8
57.5°	1897.5	1922.3	2166.3	2723.9	3056.8	3359.1	3661.2	3746.0	4063.1	4291.6	3786.0
60°	1879.9	1910.6	2163.2	2777.0	3227.4	3688.1	4126.2	4275.0	4749.9	5000.1	4276.8
62.5°	1825.1	1858.2	2142.9	2770.0	3469.6	4143.4	4721.3	4837.4	5401.3	5644.5	4687.2
65°	1651.5	1682.4	1977.1	2658.8	3633.0	4629.3	5425.7	5353.0	5915.4	6098.4	4891.9
66°	1532.5	1562.9	1846.5	2527.8	3595.1	4767.2	5675.2	5512.6	6030.5	6173.9	4852.0
67.5°	1315.1	1338.8	1592.8	2234.5	3393.5	4805.7	5885.1	5632.5	6042.6	6093.2	4623.4
70°	830.8	837.8	1035.2	1542.5	2568.8	4167.8	5565.7	5334.8	5544.3	5407.1	3876.0
72.5°	360.5	358.0	496.9	784.7	1454.3	2796.6	4502.1	4401.9	4349.1	4036.3	2713.2
75°	200.6	203.4	258.1	364.3	591.1	1373.6	2945.2	2818.3	2379.6	2030.6	1230.3
77.5°	160.9	164.7	214.0	258.5	265.4	479.0	1378.1	1121.4	675.1	541.8	341.9
80°	127.2	134.1	186.8	201.2	178.8	197.4	445.3	356.0	267.1	245.0	177.2
82.5°	100.7	105.5	160.3	152.3	125.1	133.0	213.3	207.8	173.7	158.1	102.4
85°	72.3	81.3	131.7	114.8	82.0	89.6	141.7	135.7	99.6	81.3	45.1
87.5°	29.7	38.6	93.1	76.2	45.8	41.7	70.7	66.5	47.3	34.5	22.4
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°	1039.4	1039.4	1039.4	1039.4	1039.4	1039.4	1039.4	1039.4	1039.4	1039.4	1039.4
2.5°	1038.3	1046.6	1057.3	1063.9	1067.2	1069.7	1073.5	1073.2	1074.2	1074.5	1075.9
5°	1045.3	1059.1	1074.5	1078.7	1078.7	1074.9	1071.1	1064.9	1062.4	1061.8	1062.4
7.5°	1063.2	1078.3	1091.8	1086.9	1076.6	1061.4	1041.8	1024.6	1015.3	1012.1	1011.5
10°	1085.9	1104.2	1109.7	1091.4	1061.1	1024.6	985.6	957.4	941.1	936.7	935.3
12.5°	1113.5	1130.7	1123.1	1084.5	1028.4	969.5	915.6	870.5	836.8	826.0	825.4
15°	1143.8	1157.3	1130.7	1063.2	979.4	892.5	796.8	718.9	676.9	663.4	662.4
17.5°	1172.1	1179.0	1126.3	1025.9	907.4	766.8	639.7	579.6	565.2	568.7	569.3
20°	1196.1	1196.1	1111.0	972.5	794.0	601.0	520.7	519.7	530.0	540.3	542.5
22.5°	1222.7	1206.9	1084.5	897.0	633.4	491.7	480.1	489.7	501.5	512.8	514.5
25°	1255.5	1215.5	1047.6	782.7	498.0	446.6	451.1	459.0	464.9	472.1	473.1
27.5°	1292.0	1226.5	999.0	625.1	432.2	418.4	421.9	424.5	423.9	426.7	427.3
30°	1335.8	1239.3	932.5	488.7	404.9	394.2	388.0	385.7	385.7	390.2	391.8
32.5°	1394.4	1258.2	837.1	418.7	391.8	377.1	357.0	348.1	351.5	366.7	370.1
35°	1458.8	1278.6	707.9	395.0	389.0	369.1	338.1	321.5	321.9	336.0	340.4
37.5°	1529.1	1304.4	566.2	390.5	395.3	369.4	328.1	305.4	296.0	296.0	297.8
40°	1619.0	1331.0	458.4	393.5	408.4	373.6	322.9	292.6	266.4	267.1	268.4
42.5°	1736.2	1353.7	400.5	400.1	424.2	379.1	322.5	275.7	253.0	268.4	282.5
45°	1866.5	1365.0	374.9	406.0	437.0	382.5	317.0	272.9	254.7	300.8	327.8
47.5°	2016.3	1358.5	360.8	408.1	440.1	382.5	310.9	279.5	266.8	348.4	379.8
50°	2180.7	1339.6	347.0	403.9	439.1	381.9	316.7	286.0	271.2	356.7	378.4
52.5°	2374.1	1323.7	332.6	395.0	431.8	378.1	323.6	283.3	257.1	324.3	339.4
55°	2594.6	1328.2	316.4	382.2	420.4	370.8	321.2	272.2	242.2	285.7	295.0
57.5°	2876.5	1381.6	297.1	366.0	404.9	358.7	312.6	267.1	237.8	259.1	264.6
60°	3191.2	1474.7	272.9	349.7	385.7	339.4	306.1	269.4	239.9	257.1	259.8
62.5°	3422.1	1528.7	252.3	326.0	359.5	318.0	297.8	272.6	245.4	264.3	263.6
65°	3484.8	1439.8	226.4	291.2	324.0	295.7	287.4	276.0	247.8	270.2	267.1
66°	3396.9	1344.1	215.0	275.0	306.1	284.7	282.2	275.7	246.7	270.9	265.7
67.5°	3183.6	1147.5	195.4	251.2	277.4	268.1	273.9	272.6	244.0	270.2	262.9
70°	2596.4	783.0	167.2	209.2	230.9	236.1	258.1	261.6	235.1	258.1	242.2
72.5°	1814.1	477.0	147.8	162.3	186.8	201.2	236.4	246.4	223.0	225.4	210.2
75°	876.7	253.3	134.1	125.8	145.1	168.2	210.2	225.8	204.0	188.5	183.0
77.5°	273.3	154.8	113.8	101.3	113.8	135.7	175.7	197.8	181.6	157.8	155.8
80°	146.8	113.8	87.6	81.3	89.9	106.5	138.2	165.1	156.1	141.7	126.4
82.5°	96.9	73.8	64.8	63.1	68.5	81.3	102.7	136.8	136.8	121.3	88.2
85°	49.9	45.1	44.5	44.5	47.9	54.1	70.0	105.5	112.3	64.1	53.1
87.5°	24.9	25.9	24.1	25.2	26.9	26.5	33.5	53.1	63.4	39.0	32.4
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)