

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: P200041

Luminaire Tested: **GWC-AF-01-LED-E1-T3R-7030-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P200041
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-7030-1200
Description: GALLEON WALL LUMINAIRE
(1) 70 CRI, 3000K, 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: 6778.5 lumens
Efficiency: N/A
Efficacy: 101.2 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

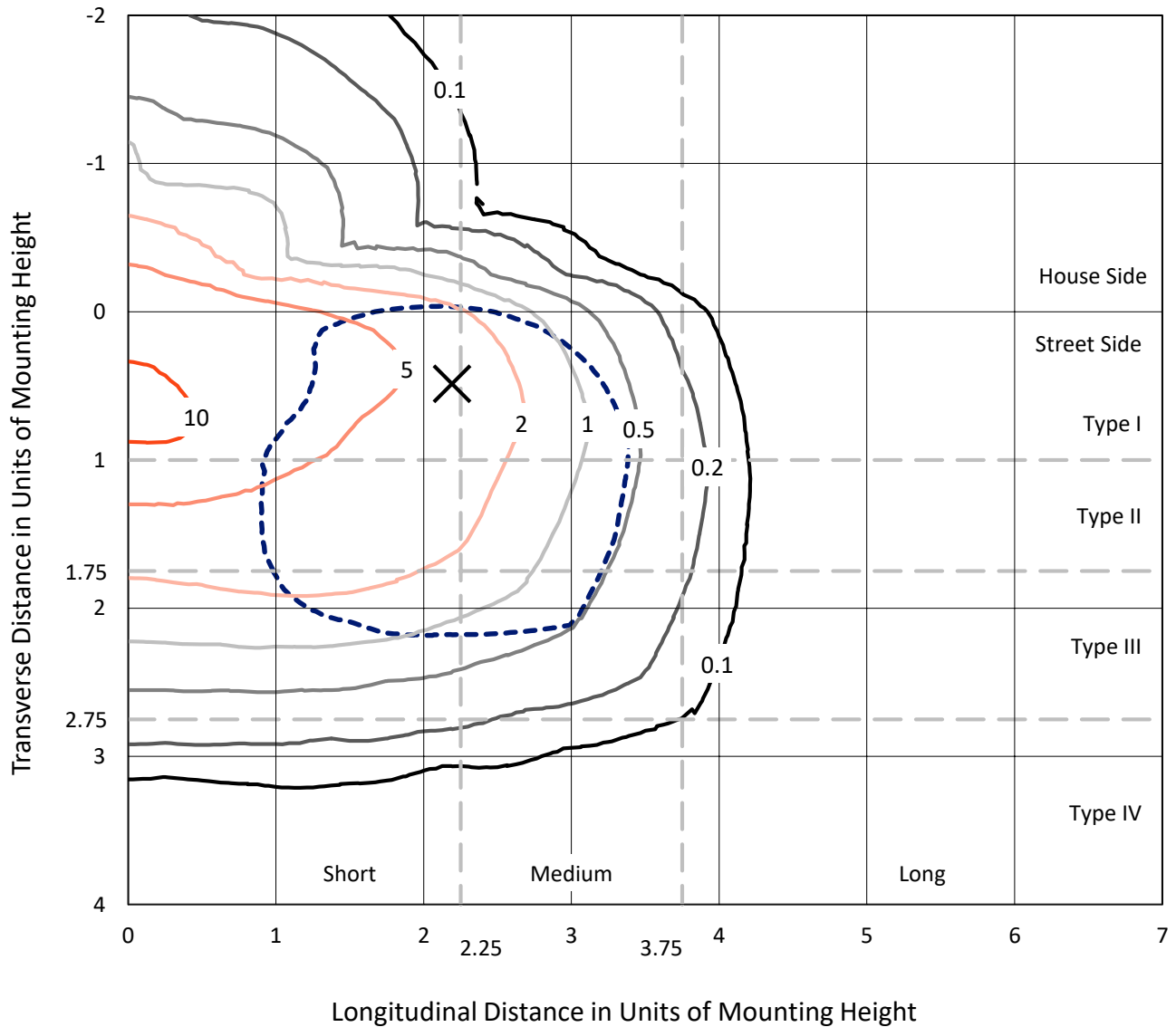
Input Watts (W): 67
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

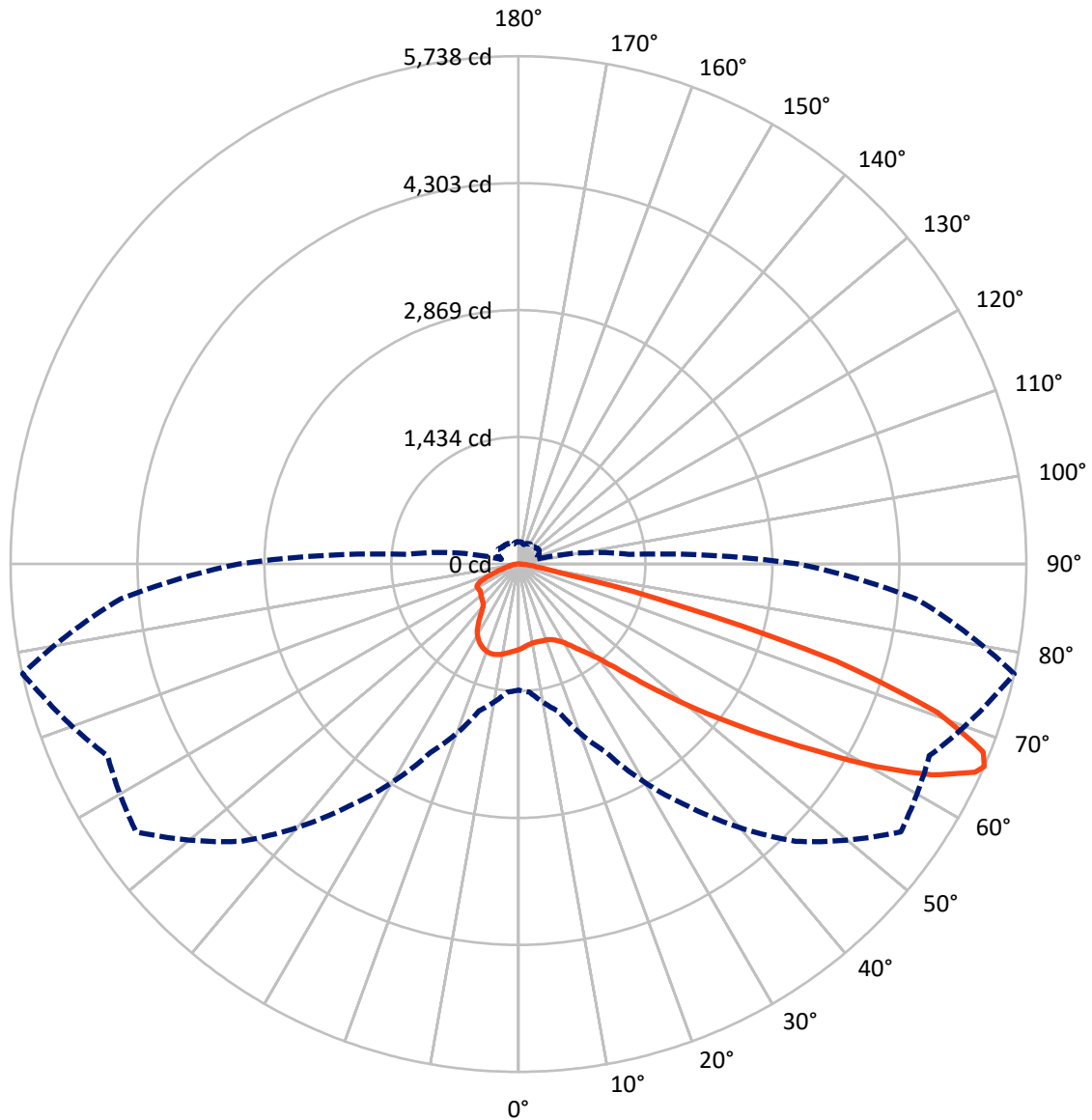
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 11.9 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	1158.1	0.0	1158.1
	% Fixture	17.1	0.0	17.1
Street Side	Lumens	5620.4	0.0	5620.4
	% Fixture	82.9	0.0	82.9
Total	Lumens	6778.5	0.0	6778.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	86.3	1.3
10°-20°	243.5	3.6
20°-30°	415.5	6.1
30°-40°	665.2	9.8
40°-50°	1027.6	15.2
50°-60°	1457.5	21.5
60°-70°	1949.8	28.8
70°-80°	846.7	12.5
80°-90°	86.4	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°	6778.5	100.0
0°-180°	6778.5	100.0



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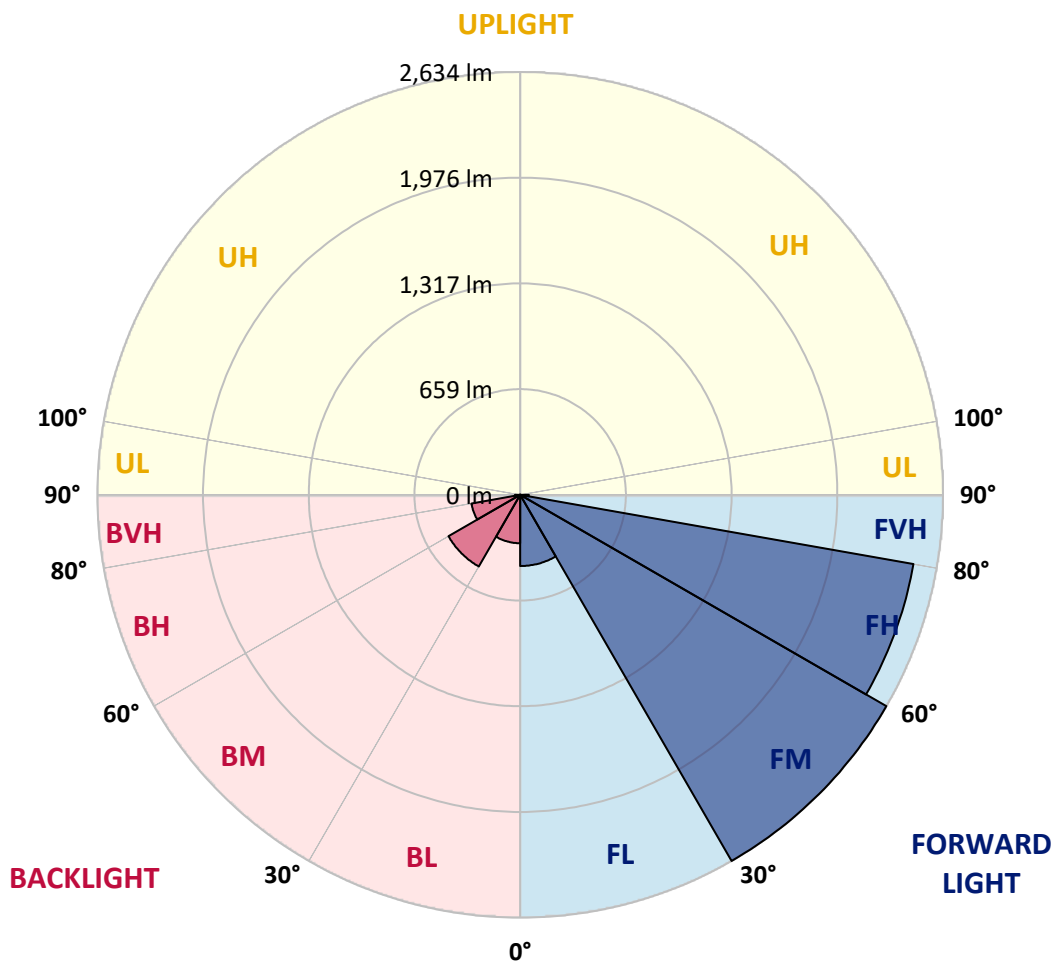
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	443.7	6.5			
FM	(30°-60°)	2634.5	38.9			
FH	(60°-80°)	2488.1	36.7			G2/5000
FVH	(80°-90°)	54.2	0.8			G1/100
BL	(0°-30°)	301.6	4.4	B1/500		
BM	(30°-60°)	515.9	7.6	B1/1000		
BH	(60°-80°)	308.4	4.5	B1/500		G1/500
BVH	(80°-90°)	32.2	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°	965.9	965.9	965.9	965.9	965.9	965.9	965.9	965.9	965.9	965.9	965.9
2.5°	854.5	860.2	865.1	869.6	878.5	893.3	910.3	924.0	943.9	947.8	958.3
5°	776.0	776.0	779.9	786.7	798.8	820.9	843.9	874.7	917.9	928.2	956.4
7.5°	737.9	738.2	740.5	746.3	756.8	777.0	802.3	838.5	897.1	914.0	962.2
10°	752.1	748.8	744.0	741.1	742.7	754.5	778.6	819.0	884.3	906.1	974.9
12.5°	830.8	824.7	808.0	786.0	764.8	756.1	770.3	809.6	878.8	904.2	991.9
15°	959.6	957.0	926.0	880.1	828.9	786.0	776.3	806.1	879.5	906.4	1012.1
17.5°	1121.0	1117.5	1076.4	1009.8	926.3	842.6	797.8	809.0	881.7	910.3	1031.6
20°	1284.1	1273.1	1229.0	1149.5	1042.2	919.8	833.4	816.4	884.6	914.4	1052.2
22.5°	1405.7	1396.7	1357.0	1279.9	1156.2	1009.2	881.1	829.2	894.0	926.6	1077.4
25°	1512.7	1513.4	1474.0	1399.3	1271.5	1104.0	942.6	863.4	917.6	951.5	1112.0
27.5°	1644.9	1637.3	1600.5	1526.5	1385.6	1199.7	1016.9	910.6	952.8	987.1	1157.5
30°	1803.2	1797.8	1755.1	1671.3	1512.1	1302.5	1101.8	965.4	998.4	1033.9	1217.0
32.5°	1989.3	1986.7	1942.5	1834.5	1658.0	1423.7	1201.4	1037.7	1066.2	1103.1	1302.5
35°	2207.7	2208.0	2155.8	2026.1	1817.9	1564.6	1314.5	1130.9	1148.8	1187.3	1404.5
37.5°	2342.2	2358.6	2339.0	2206.7	1998.9	1722.2	1461.2	1254.5	1243.0	1281.8	1513.7
40°	2371.0	2390.9	2452.8	2385.4	2201.3	1895.7	1591.1	1373.3	1358.9	1406.4	1654.3
42.5°	2330.6	2358.2	2489.0	2536.3	2416.2	2109.7	1766.0	1549.9	1531.6	1595.3	1829.1
45°	2306.7	2327.2	2478.3	2614.7	2602.6	2351.5	1988.6	1771.5	1764.7	1848.4	2030.9
47.5°	2265.0	2283.6	2429.0	2633.0	2712.1	2573.2	2256.1	2042.5	2055.6	2165.1	2258.7
50°	2287.5	2295.1	2373.9	2586.6	2743.8	2735.6	2554.9	2356.3	2401.1	2537.9	2516.4
52.5°	2284.2	2304.1	2367.5	2510.3	2748.0	2835.8	2849.2	2706.3	2800.9	2957.8	2802.5
55°	1846.8	1883.3	2292.3	2491.1	2762.7	2934.0	3111.2	3075.3	3251.4	3434.4	3125.3
57.5°	1763.4	1786.5	2013.2	2531.5	2840.9	3121.8	3402.7	3481.4	3776.1	3988.5	3518.6
60°	1747.1	1775.7	2010.5	2580.8	2999.5	3427.7	3834.8	3973.1	4414.4	4647.0	3974.7
62.5°	1696.2	1727.0	1991.5	2574.4	3224.6	3850.8	4387.8	4495.8	5019.8	5245.9	4356.1
65°	1534.7	1563.6	1837.4	2471.0	3376.4	4302.3	5042.5	4974.9	5497.6	5667.7	4546.3
66°	1424.3	1452.5	1716.0	2349.2	3341.1	4430.4	5274.3	5123.2	5604.6	5737.8	4509.2
67.5°	1222.2	1244.3	1480.3	2076.7	3153.8	4466.3	5469.4	5234.7	5615.8	5662.8	4296.8
70°	772.2	778.6	962.2	1433.6	2387.3	3873.4	5172.5	4957.9	5152.7	5025.2	3602.2
72.5°	335.0	332.7	461.9	729.3	1351.6	2599.0	4184.2	4090.9	4042.0	3751.1	2521.6
75°	186.4	188.9	239.8	338.5	549.3	1276.6	2737.2	2619.2	2211.5	1887.0	1143.4
77.5°	149.6	153.1	198.9	240.2	246.6	445.2	1280.8	1042.2	627.5	503.5	317.7
80°	118.1	124.6	173.6	187.0	166.3	183.6	413.8	330.8	248.2	227.7	164.7
82.5°	93.6	98.0	149.0	141.6	116.2	123.6	198.3	193.1	161.4	147.0	95.2
85°	67.2	75.6	122.3	106.7	76.3	83.2	131.7	126.2	92.6	75.6	42.0
87.5°	27.5	35.9	86.5	70.8	42.6	38.8	65.6	61.9	43.9	32.0	20.8
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°	965.9	965.9	965.9	965.9	965.9	965.9	965.9	965.9	965.9	965.9	965.9
2.5°	965.1	972.7	982.7	988.7	991.9	994.2	997.7	997.4	998.4	998.7	1000.0
5°	971.4	984.2	998.7	1002.4	1002.4	999.0	995.5	989.7	987.4	986.8	987.4
7.5°	988.0	1002.1	1014.7	1010.2	1000.6	986.4	968.2	952.2	943.6	940.7	940.0
10°	1009.2	1026.2	1031.3	1014.4	986.1	952.2	916.0	889.8	874.7	870.5	869.2
12.5°	1034.9	1050.9	1043.8	1007.9	955.7	900.9	851.0	809.0	777.6	767.7	767.1
15°	1063.0	1075.5	1050.9	988.0	910.3	829.5	740.5	668.1	629.0	616.5	615.6
17.5°	1089.3	1095.7	1046.7	953.5	843.3	712.6	594.4	538.8	525.2	528.4	529.1
20°	1111.7	1111.7	1032.6	903.8	737.9	558.5	484.0	483.0	492.6	502.2	504.2
22.5°	1136.4	1121.7	1007.9	833.7	588.7	457.0	446.2	455.1	466.0	476.6	478.2
25°	1166.8	1129.6	973.6	727.4	462.8	415.1	419.2	426.6	432.1	438.8	439.7
27.5°	1200.7	1139.9	928.5	581.0	401.6	388.8	392.0	394.6	394.0	396.5	397.2
30°	1241.4	1151.7	866.7	454.1	376.4	366.4	360.7	358.4	358.4	362.6	364.1
32.5°	1295.9	1169.3	778.0	389.1	364.1	350.4	331.8	323.5	326.7	340.8	344.0
35°	1355.7	1188.2	657.9	367.0	361.6	343.1	314.2	298.8	299.1	312.2	316.4
37.5°	1421.1	1212.3	526.2	362.9	367.3	343.4	304.9	283.8	275.1	275.1	276.7
40°	1504.7	1236.9	426.0	365.7	379.6	347.1	300.1	272.0	247.6	248.2	249.5
42.5°	1613.6	1258.1	372.2	371.8	394.3	352.3	299.8	256.3	235.1	249.5	262.6
45°	1734.6	1268.6	348.4	377.3	406.1	355.5	294.6	253.7	236.7	279.6	304.6
47.5°	1873.9	1262.6	335.3	379.3	409.0	355.5	288.9	259.7	247.9	323.8	352.9
50°	2026.8	1245.0	322.5	375.4	408.0	354.9	294.3	265.8	252.1	331.5	351.7
52.5°	2206.4	1230.2	309.1	367.0	401.3	351.3	300.7	263.3	239.0	301.4	315.5
55°	2411.4	1234.3	294.0	355.2	390.7	344.7	298.5	253.1	225.1	265.5	274.2
57.5°	2673.4	1284.1	276.0	340.2	376.4	333.4	290.5	248.2	221.0	240.8	246.0
60°	2965.8	1370.5	253.7	325.1	358.4	315.5	284.4	250.5	222.9	239.0	241.5
62.5°	3180.3	1420.8	234.5	303.0	334.0	295.6	276.7	253.4	228.0	245.6	245.0
65°	3238.7	1338.1	210.4	270.7	301.1	274.7	267.1	256.6	230.3	251.1	248.2
66°	3157.0	1249.0	199.9	255.6	284.4	264.5	262.3	256.3	229.3	251.8	246.9
67.5°	2958.8	1066.6	181.6	233.5	257.8	249.2	254.7	253.4	226.7	251.1	244.4
70°	2413.0	727.7	155.3	194.4	214.6	219.4	239.8	243.1	218.5	239.8	225.1
72.5°	1686.0	443.3	137.4	150.8	173.6	187.0	219.8	229.0	207.2	209.4	195.4
75°	814.8	235.4	124.6	116.9	134.8	156.3	195.4	209.8	189.6	175.2	170.0
77.5°	254.0	143.8	105.7	94.2	105.7	126.2	163.4	183.9	168.7	146.7	144.8
80°	136.4	105.7	81.3	75.6	83.6	98.9	128.5	153.4	145.1	131.7	117.5
82.5°	90.0	68.5	60.3	58.6	63.7	75.6	95.5	127.2	127.2	112.8	82.0
85°	46.4	42.0	41.4	41.4	44.5	50.3	65.0	98.0	104.4	59.6	49.3
87.5°	23.1	24.1	22.4	23.4	25.0	24.7	31.0	49.3	59.0	36.2	30.1
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)