

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: P200035

Luminaire Tested: **GWC-AF-01-LED-E1-T3R-7030-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P200035
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-7030-600
Description: GALLEON WALL LUMINAIRE
(1) 70 CRI, 3000K, 615mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4070.7 lumens
Efficiency: N/A
Efficacy: 119.7 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 - G1

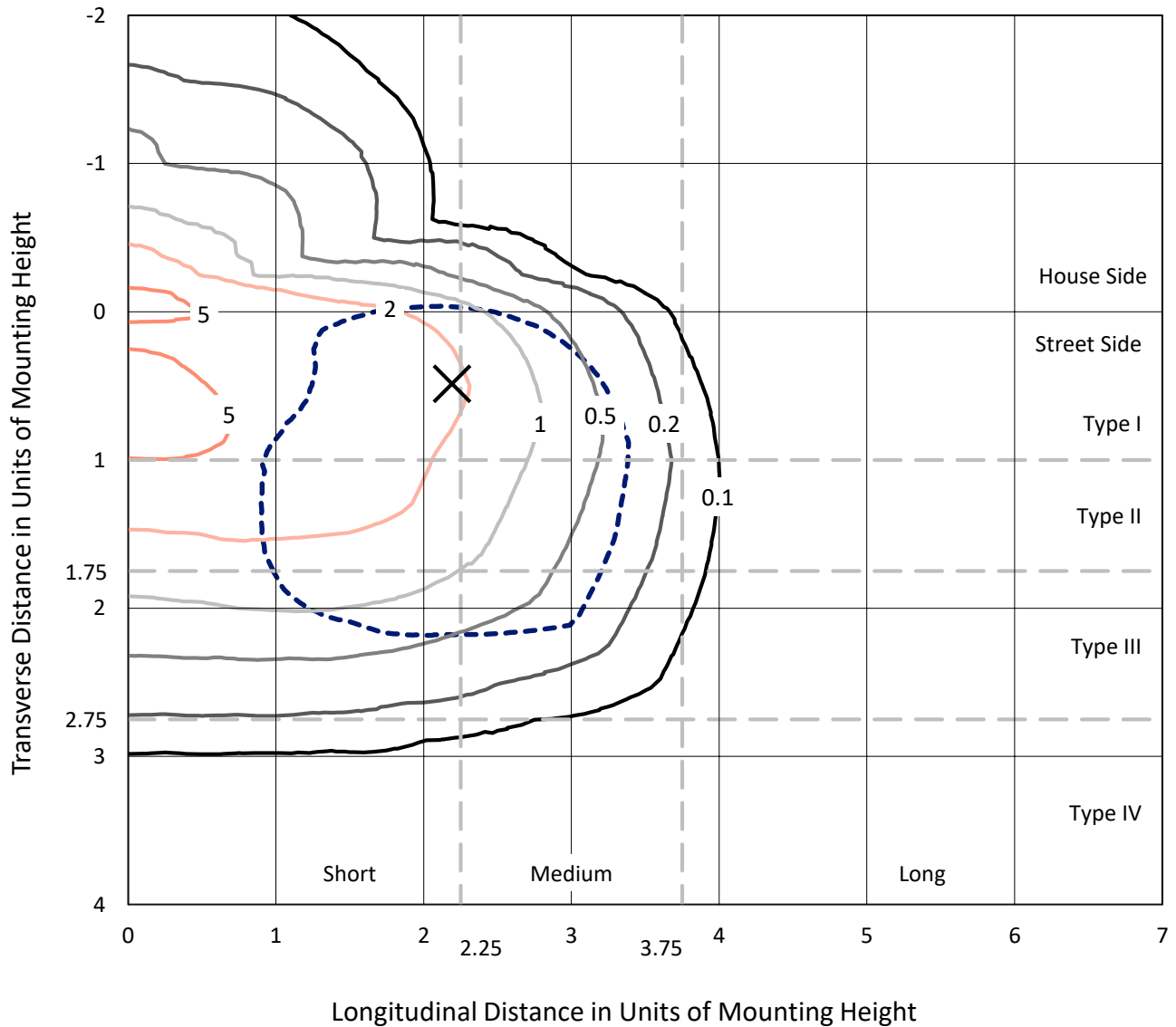
Input Watts (W): 34
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

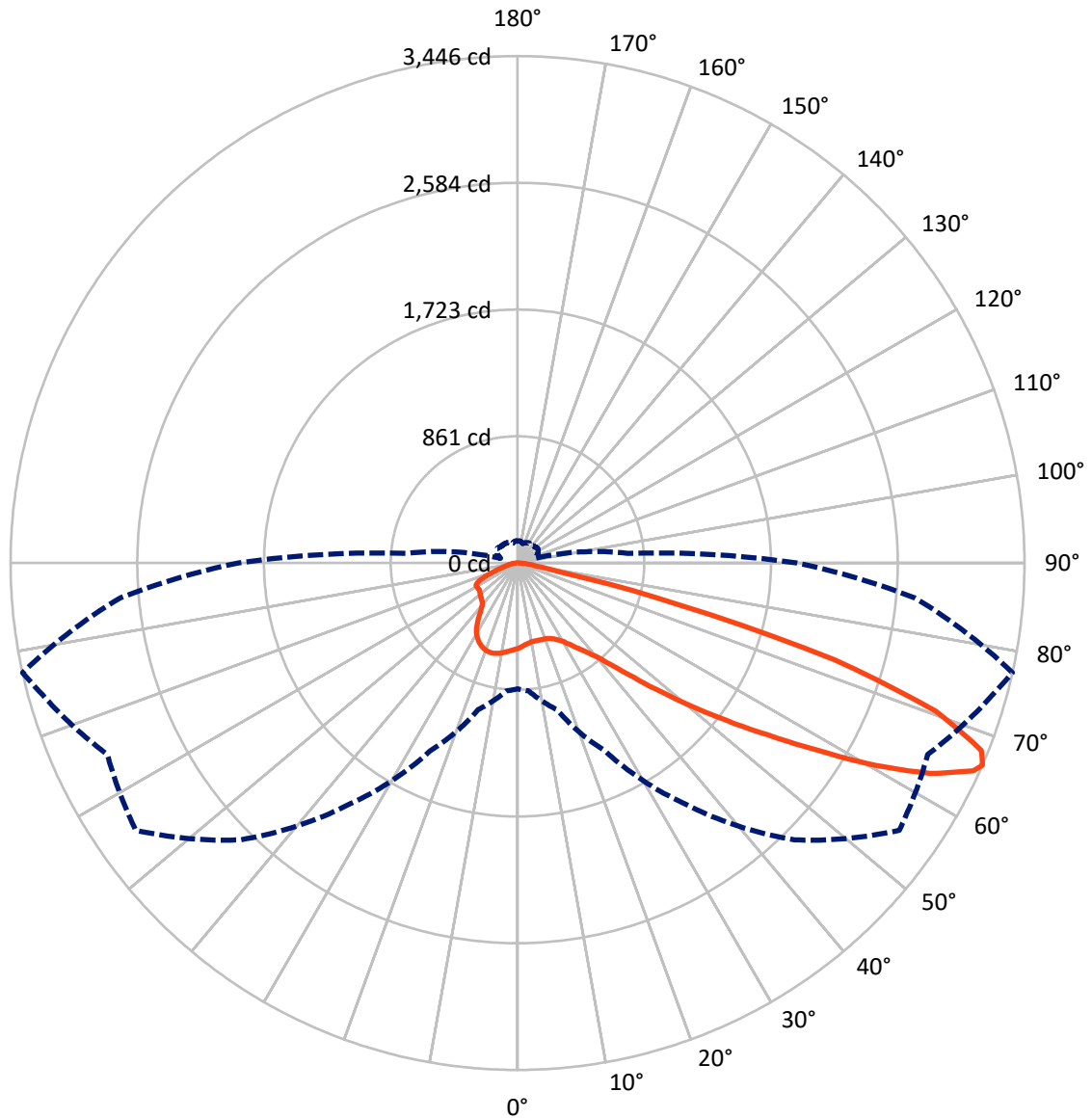
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 7.1 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	695.5	0.0	695.5
	% Fixture	17.1	0.0	17.1
Street Side	Lumens	3375.3	0.0	3375.3
	% Fixture	82.9	0.0	82.9
Total	Lumens	4070.7	0.0	4070.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	51.8	1.3
10°-20°	146.2	3.6
20°-30°	249.5	6.1
30°-40°	399.5	9.8
40°-50°	617.1	15.2
50°-60°	875.3	21.5
60°-70°	1170.9	28.8
70°-80°	508.5	12.5
80°-90°	51.9	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°	4070.7	100.0
0°-180°	4070.7	100.0



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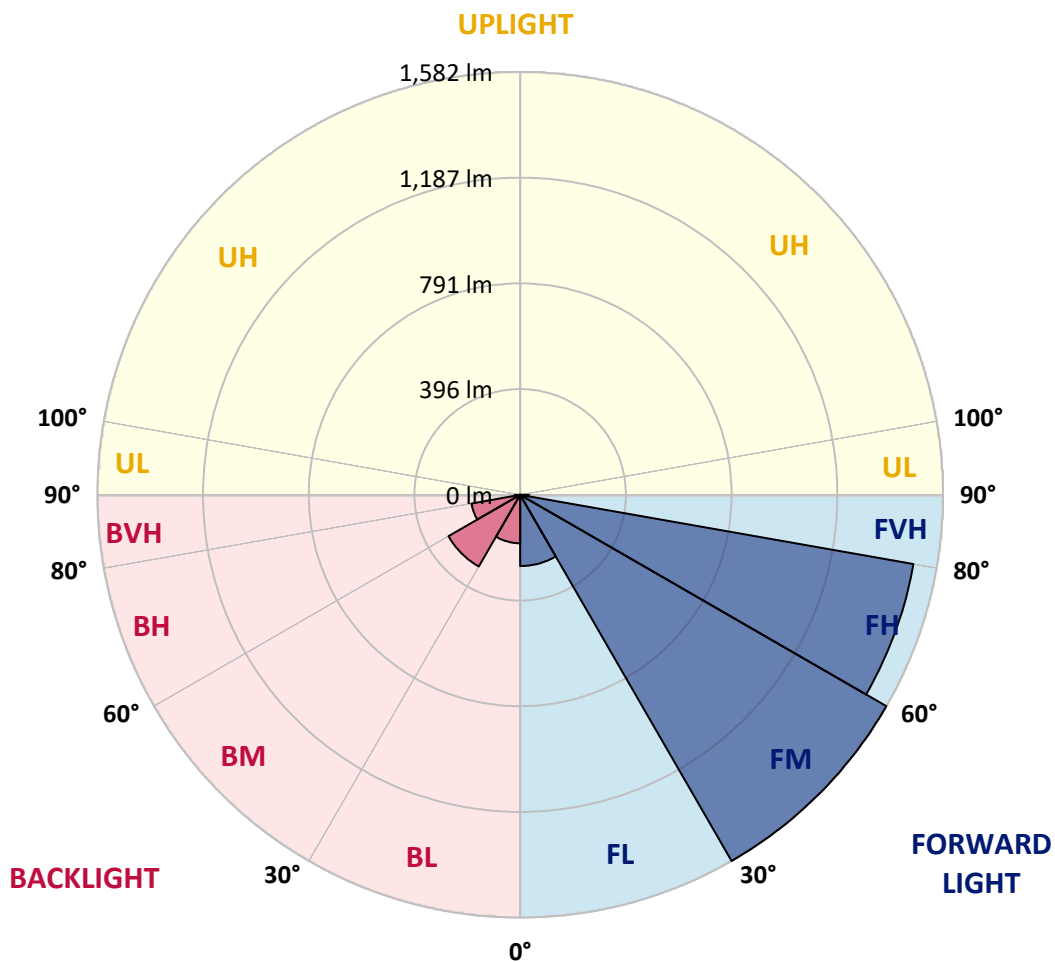
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	266.4	6.5			
FM	(30°-60°)	1582.1	38.9			
FH	(60°-80°)	1494.2	36.7			G1/1800
FVH	(80°-90°)	32.5	0.8			G1/100
BL	(0°-30°)	181.1	4.4	B1/500		
BM	(30°-60°)	309.8	7.6	B1/1000		
BH	(60°-80°)	185.2	4.5	B1/500		G1/500
BVH	(80°-90°)	19.3	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-G1

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77.5°	85°
0°	580.1	580.1	580.1	580.1	580.1	580.1	580.1	580.1	580.1	580.1	580.1
2.5°	513.2	516.6	519.5	522.2	527.6	536.4	546.6	554.9	566.8	569.2	575.5
5°	466.0	466.0	468.3	472.4	479.7	493.0	506.9	525.3	551.2	557.4	574.3
7.5°	443.2	443.4	444.7	448.1	454.5	466.6	481.8	503.5	538.8	549.0	577.7
10°	451.6	449.7	446.8	445.1	446.1	453.2	467.5	491.8	531.0	544.1	585.5
12.5°	498.9	495.3	485.3	472.1	459.3	454.1	462.6	486.2	527.8	542.9	595.7
15°	576.2	574.7	556.0	528.6	497.7	472.1	466.3	484.1	528.1	544.3	607.8
17.5°	673.2	671.1	646.5	606.4	556.3	506.0	479.1	485.8	529.5	546.6	619.5
20°	771.1	764.5	738.0	690.3	625.9	552.4	500.5	490.3	531.2	549.2	631.9
22.5°	844.2	838.9	814.9	768.6	694.4	606.1	529.1	497.9	536.8	556.5	647.0
25°	908.5	908.8	885.1	840.4	763.6	663.0	566.0	518.6	551.1	571.4	667.9
27.5°	987.8	983.2	961.1	916.7	832.1	720.5	610.7	546.8	572.3	592.8	695.1
30°	1082.9	1079.7	1054.0	1003.6	908.0	782.2	661.6	579.7	599.5	620.9	730.9
32.5°	1194.6	1193.1	1166.6	1101.7	995.8	855.0	721.5	623.2	640.3	662.4	782.2
35°	1325.8	1325.9	1294.7	1216.7	1091.7	939.6	789.3	679.1	689.9	713.0	843.4
37.5°	1406.6	1416.4	1404.7	1325.2	1200.4	1034.2	877.4	753.4	746.5	769.8	909.0
40°	1423.9	1435.8	1473.0	1432.6	1322.0	1138.5	955.5	824.8	816.1	844.5	993.4
42.5°	1399.6	1416.2	1494.7	1523.1	1451.0	1267.0	1060.5	930.7	919.7	958.1	1098.5
45°	1385.2	1397.6	1488.3	1570.3	1563.0	1412.2	1194.3	1063.9	1059.8	1109.9	1219.6
47.5°	1360.2	1371.4	1458.7	1581.3	1628.7	1545.3	1354.8	1226.6	1234.4	1300.3	1356.3
50°	1373.7	1378.4	1425.6	1553.3	1647.7	1642.8	1534.3	1415.1	1441.9	1524.1	1511.2
52.5°	1371.8	1383.7	1421.8	1507.6	1650.3	1702.9	1711.1	1625.3	1682.0	1776.3	1683.0
55°	1109.1	1131.0	1376.5	1496.1	1659.1	1762.0	1868.4	1846.9	1952.7	2062.4	1876.8
57.5°	1059.0	1072.9	1209.1	1520.2	1706.1	1874.8	2043.4	2090.8	2267.7	2395.2	2113.0
60°	1049.3	1066.3	1207.4	1549.9	1801.2	2058.5	2302.9	2385.9	2651.0	2790.7	2386.9
62.5°	1018.7	1037.1	1196.0	1546.0	1936.4	2312.5	2635.0	2699.9	3014.6	3150.4	2616.0
65°	921.7	939.0	1103.5	1483.9	2027.6	2583.7	3028.2	2987.6	3301.5	3403.6	2730.3
66°	855.4	872.3	1030.6	1410.8	2006.5	2660.7	3167.4	3076.7	3365.7	3445.7	2708.0
67.5°	734.0	747.2	889.0	1247.1	1894.0	2682.2	3284.6	3143.6	3372.5	3400.7	2580.5
70°	463.8	467.5	577.7	860.9	1433.7	2326.1	3106.3	2977.4	3094.4	3017.8	2163.3
72.5°	201.2	199.9	277.3	438.0	811.7	1560.8	2512.7	2456.7	2427.3	2252.7	1514.3
75°	111.9	113.5	144.0	203.3	329.8	766.7	1643.8	1573.0	1328.1	1133.3	686.7
77.5°	89.8	91.9	119.4	144.2	148.1	267.3	769.1	625.9	376.8	302.4	190.8
80°	71.0	74.9	104.3	112.3	99.8	110.2	248.5	198.7	149.1	136.7	98.8
82.5°	56.2	58.9	89.5	85.1	69.8	74.2	119.0	116.0	97.0	88.3	57.1
85°	40.4	45.4	73.5	64.0	45.8	50.1	79.1	75.8	55.6	45.4	25.2
87.5°	16.5	21.6	52.0	42.5	25.6	23.3	39.4	37.2	26.3	19.2	12.5
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°	580.1	580.1	580.1	580.1	580.1	580.1	580.1	580.1	580.1	580.1	580.1
2.5°	579.6	584.2	590.1	593.7	595.7	597.1	599.1	598.9	599.5	599.8	600.5
5°	583.3	591.1	599.8	602.0	602.0	599.9	597.8	594.3	593.0	592.6	593.0
7.5°	593.3	601.8	609.3	606.6	600.8	592.5	581.4	571.8	566.7	564.9	564.5
10°	606.1	616.3	619.3	609.1	592.2	571.8	550.1	534.4	525.3	522.8	522.0
12.5°	621.5	631.0	626.8	605.3	574.0	541.0	511.0	485.8	467.0	461.0	460.7
15°	638.4	645.8	631.0	593.3	546.6	498.2	444.7	401.3	377.8	370.2	369.7
17.5°	654.1	658.0	628.5	572.6	506.4	427.9	357.0	323.5	315.5	317.4	317.7
20°	667.6	667.6	620.1	542.8	443.2	335.4	290.6	290.0	295.8	301.6	302.8
22.5°	682.5	673.6	605.3	500.6	353.5	274.4	268.0	273.4	279.9	286.2	287.2
25°	700.7	678.4	584.7	436.8	278.0	249.3	251.8	256.2	259.5	263.5	264.1
27.5°	721.1	684.5	557.6	348.9	241.2	233.5	235.4	236.9	236.6	238.1	238.6
30°	745.5	691.7	520.5	272.7	226.0	220.1	216.5	215.2	215.2	217.7	218.7
32.5°	778.2	702.2	467.2	233.7	218.7	210.4	199.2	194.3	196.2	204.6	206.5
35°	814.1	713.6	395.0	220.4	217.2	206.0	188.7	179.5	179.7	187.5	190.0
37.5°	853.5	728.0	316.0	217.9	220.6	206.2	183.1	170.5	165.2	165.2	166.2
40°	903.6	742.8	255.8	219.6	227.9	208.5	180.2	163.3	148.7	149.1	149.8
42.5°	969.0	755.5	223.5	223.3	236.7	211.6	180.0	153.9	141.1	149.8	157.7
45°	1041.7	761.8	209.2	226.6	243.9	213.5	176.9	152.3	142.1	167.9	182.9
47.5°	1125.4	758.2	201.4	227.7	245.6	213.5	173.5	156.0	148.9	194.4	211.9
50°	1217.1	747.7	193.7	225.4	245.0	213.1	176.8	159.6	151.3	199.0	211.2
52.5°	1325.1	738.7	185.6	220.4	241.0	210.9	180.7	158.1	143.5	181.0	189.5
55°	1448.2	741.3	176.6	213.3	234.7	207.0	179.3	152.0	135.2	159.5	164.7
57.5°	1605.4	771.1	165.8	204.3	226.0	200.2	174.4	149.1	132.8	144.7	147.7
60°	1781.0	823.1	152.3	195.3	215.2	189.5	170.8	150.4	133.8	143.5	145.0
62.5°	1909.9	853.2	140.8	181.9	200.6	177.5	166.2	152.1	136.9	147.6	147.1
65°	1944.9	803.6	126.4	162.5	180.8	165.0	160.4	154.0	138.3	150.8	149.1
66°	1896.0	750.1	120.0	153.5	170.8	158.9	157.6	153.9	137.7	151.2	148.3
67.5°	1776.8	640.5	109.0	140.2	154.9	149.6	152.9	152.1	136.2	150.8	146.7
70°	1449.1	437.0	93.3	116.8	128.9	131.8	144.0	146.0	131.1	144.0	135.2
72.5°	1012.5	266.2	82.5	90.5	104.3	112.3	131.9	137.5	124.5	125.8	117.3
75°	489.3	141.3	74.9	70.2	81.0	93.9	117.3	126.0	113.9	105.3	102.1
77.5°	152.5	86.4	63.5	56.5	63.5	75.8	98.1	110.4	101.4	88.1	86.9
80°	82.0	63.5	48.9	45.4	50.2	59.4	77.1	92.2	87.1	79.1	70.6
82.5°	54.0	41.1	36.2	35.2	38.2	45.4	57.4	76.4	76.4	67.7	49.2
85°	27.9	25.2	24.8	24.8	26.7	30.2	39.1	58.9	62.7	35.8	29.6
87.5°	13.9	14.4	13.4	14.1	15.0	14.8	18.7	29.6	35.3	21.7	18.0
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)