

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: P270230

Luminaire Tested: **GWC-AF-02-LED-E1-T3-7027-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P270230
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24140)
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-T3-7027-600
Description: GALLEON WALL LUMINAIRE
(2) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7112.8 lumens
Efficiency: N/A
Efficacy: 107.8 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

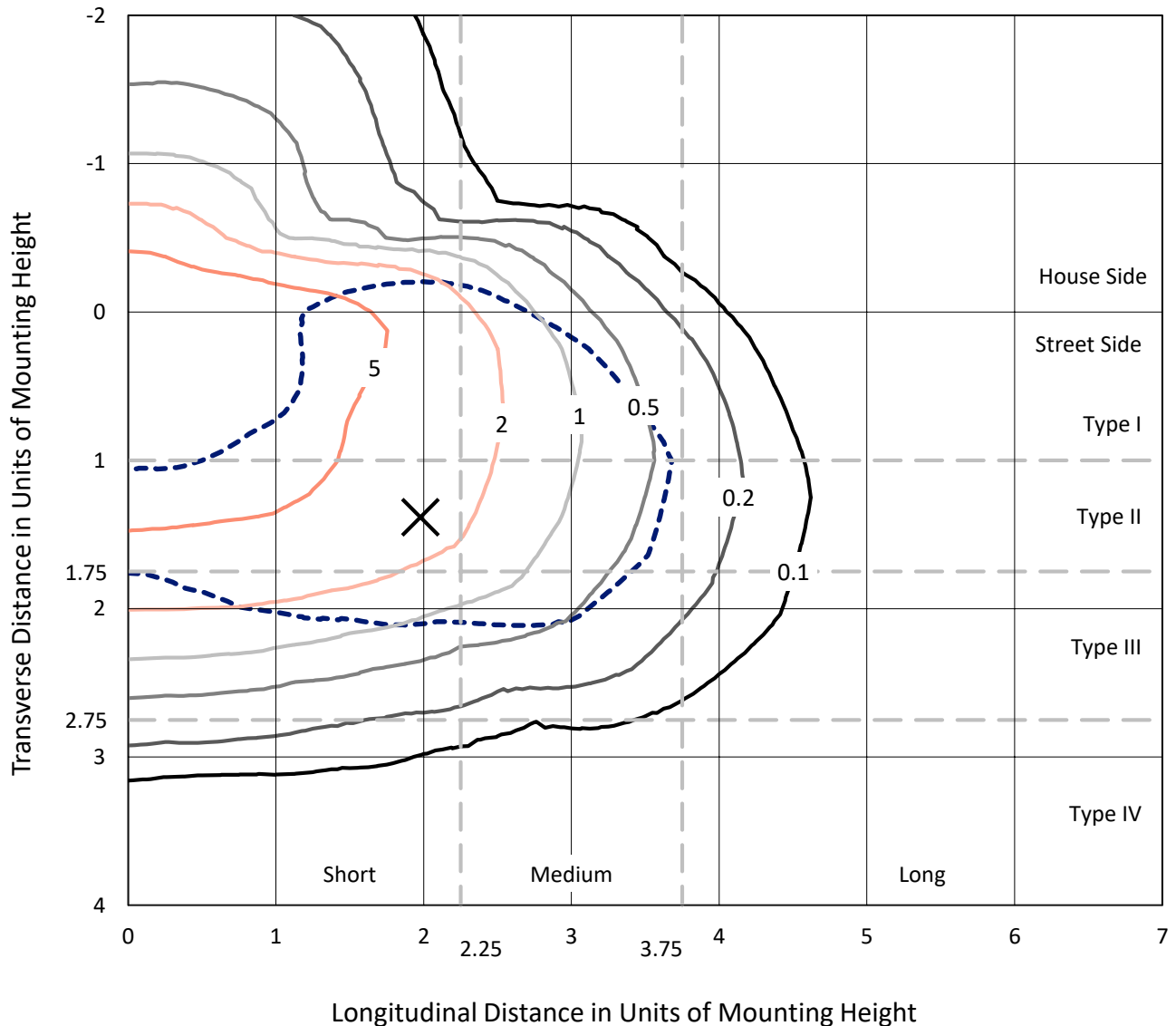
Input Watts (W): 66
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

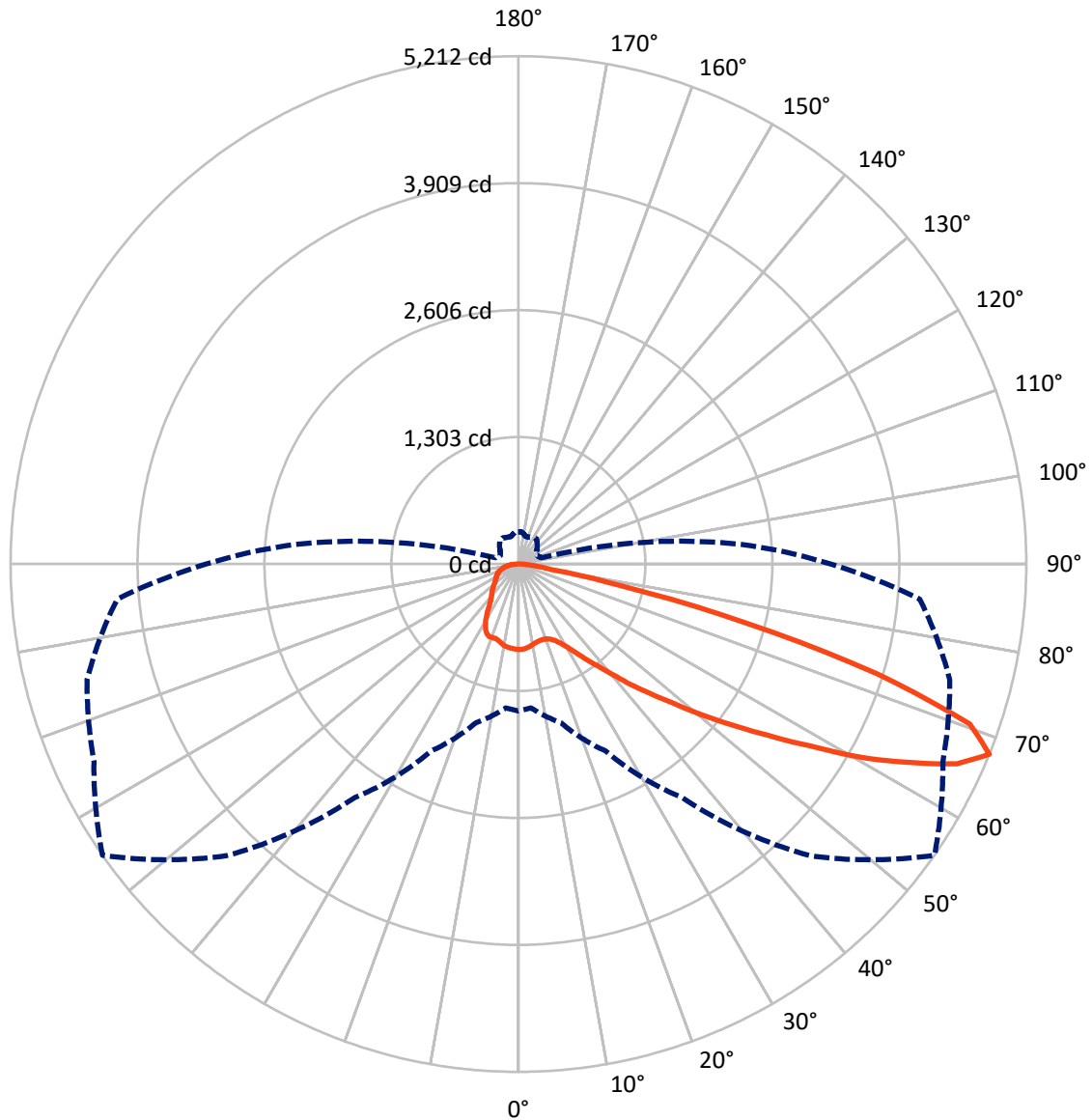
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 9 fc
 Type III - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1536.5	0.0	1536.5
	% Fixture	21.6	0.0	21.6
Street Side	Lumens	5576.3	0.0	5576.3
	% Fixture	78.4	0.0	78.4
Total	Lumens	7112.8	0.0	7112.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	81.9	1.2
10°-20°	231.9	3.3
20°-30°	388.4	5.5
30°-40°	638.7	9.0
40°-50°	1075.1	15.1
50°-60°	1692.1	23.8
60°-70°	2019.4	28.4
70°-80°	867.2	12.2
80°-90°	118.2	1.7
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°	7112.8	100.0
0°-180°	7112.8	100.0



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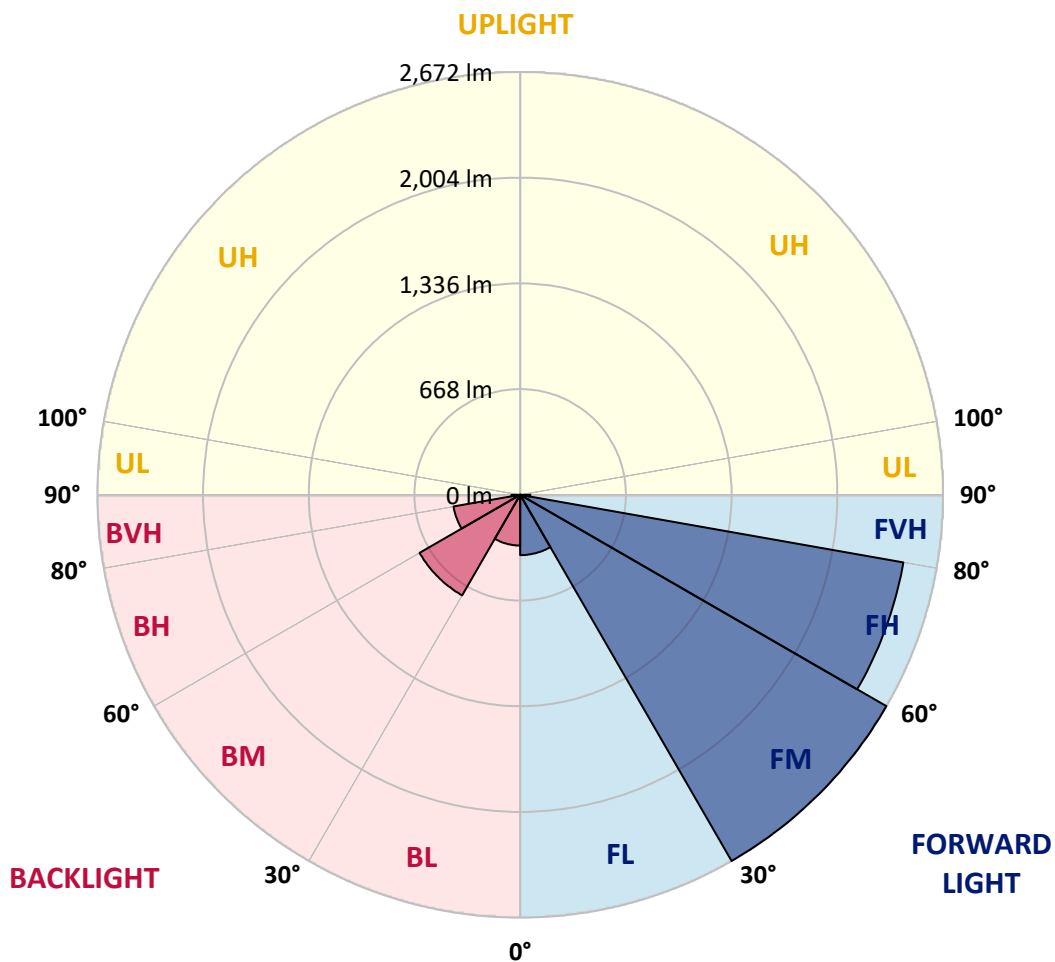
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	381.3	5.4			
FM	(30°-60°)	2672.1	37.6			
FH	(60°-80°)	2458.9	34.6			G2/5000
FVH	(80°-90°)	64.0	0.9			G1/100
BL	(0°-30°)	320.9	4.5	B1/500		
BM	(30°-60°)	733.8	10.3	B1/1000		
BH	(60°-80°)	427.6	6.0	B1/500		G1/500
BVH	(80°-90°)	54.2	0.8			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°	85°	90°
0°	877.0	877.0	877.0	877.0	877.0	877.0	877.0	877.0	877.0	877.0	877.0
2.5°	869.5	869.9	870.5	873.3	875.7	874.9	875.4	874.1	873.6	871.5	873.6
5°	858.5	859.6	859.9	864.3	867.1	867.9	866.8	865.1	863.0	860.9	862.0
7.5°	833.4	836.2	836.5	842.7	847.2	853.0	853.4	853.7	852.8	851.4	853.4
10°	817.6	818.4	817.9	822.5	825.9	832.4	836.2	842.7	845.5	846.2	847.6
12.5°	816.6	815.9	814.9	814.9	813.9	816.6	823.4	832.8	839.2	841.4	843.1
15°	827.6	827.2	823.8	818.6	812.2	810.1	815.9	826.3	834.9	839.2	841.1
17.5°	852.3	850.2	844.8	833.1	819.1	813.5	814.3	822.8	832.8	838.6	840.4
20°	897.6	897.6	886.0	864.0	838.9	825.9	819.8	824.9	834.4	842.4	844.8
22.5°	976.0	976.6	957.1	921.0	878.8	851.0	835.6	834.4	845.8	854.7	857.5
25°	1086.9	1084.3	1056.8	1005.3	941.0	894.9	868.1	862.0	871.5	881.5	885.0
27.5°	1216.1	1206.2	1173.5	1111.5	1028.2	960.8	919.7	909.8	919.0	930.4	933.8
30°	1344.0	1333.7	1294.8	1226.8	1134.4	1049.2	990.1	973.9	987.0	1003.1	1005.3
32.5°	1471.8	1471.8	1428.5	1349.2	1248.5	1154.7	1084.0	1064.8	1086.3	1106.0	1110.3
35°	1624.7	1625.4	1583.4	1488.0	1379.6	1280.4	1202.4	1188.4	1220.9	1234.7	1245.4
37.5°	1812.6	1816.4	1762.5	1647.0	1528.5	1424.1	1331.3	1312.1	1344.7	1382.1	1416.4
40°	2015.5	2020.4	1961.0	1818.8	1700.2	1591.0	1490.6	1456.0	1510.2	1581.7	1626.0
42.5°	2209.4	2234.2	2176.8	2030.3	1902.9	1790.0	1688.3	1637.7	1705.7	1813.6	1852.0
45°	2489.4	2507.2	2407.3	2274.7	2154.8	2028.4	1893.6	1840.4	1935.6	2071.6	2079.4
47.5°	2676.0	2662.5	2611.7	2529.2	2453.4	2335.1	2132.4	2073.9	2200.5	2360.6	2316.2
50°	2775.3	2779.4	2772.4	2777.3	2780.1	2705.9	2425.2	2345.0	2495.9	2689.3	2587.3
52.5°	2868.0	2840.5	2863.2	2975.8	3111.9	3084.4	2743.7	2660.2	2812.7	3054.1	2873.8
55°	2866.0	2824.0	2897.8	3096.7	3391.9	3423.5	3101.2	3005.0	3147.7	3445.4	3177.6
57.5°	2764.5	2766.6	2880.3	3140.7	3587.0	3742.2	3516.2	3372.0	3502.9	3842.0	3454.7
60°	2625.0	2644.0	2807.8	3133.6	3743.3	4003.7	4025.3	3767.4	3850.9	4202.4	3684.3
62.5°	2400.0	2419.9	2646.0	3058.5	3719.6	4255.6	4485.7	4216.0	4214.7	4420.7	3751.6
65°	2045.1	2039.3	2276.8	2778.6	3520.6	4441.8	4943.1	4604.0	4488.8	4424.2	3616.1
67.5°	1508.2	1482.1	1685.8	2116.2	2926.4	4233.3	5212.1	4805.9	4582.3	4133.2	3202.5
70°	782.7	756.6	921.4	1235.8	1924.6	3304.0	4914.2	4701.5	4375.9	3464.8	2509.0
72.5°	334.6	330.1	397.1	542.1	931.1	1905.7	3853.3	4069.3	3754.6	2581.4	1724.9
75°	225.0	223.7	248.7	295.5	418.8	773.4	2411.4	2888.6	2747.0	1600.6	970.2
77.5°	176.5	174.9	189.6	212.3	271.4	305.1	1070.2	1550.7	1435.3	696.7	424.5
80°	138.1	136.7	146.1	158.5	195.1	192.3	352.1	617.0	477.4	266.9	206.5
82.5°	109.0	109.0	116.5	116.8	138.5	131.2	183.9	271.7	238.4	155.6	126.4
85°	99.6	99.6	107.5	87.2	90.4	82.9	114.1	161.2	151.2	63.9	54.9
87.5°	50.1	48.8	90.4	77.3	49.1	43.9	55.7	78.1	83.8	35.5	27.5
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	877.0	877.0	877.0	877.0	877.0	877.0	877.0	877.0	877.0	877.0
2.5°	873.0	872.7	873.3	873.6	876.3	880.2	881.9	884.3	885.6	885.0
5°	862.6	863.4	866.1	868.1	873.0	879.1	882.6	885.3	887.7	886.6
7.5°	854.1	855.7	859.9	861.7	864.3	866.1	865.7	866.8	868.8	866.4
10°	849.3	851.4	854.4	852.0	845.5	836.2	827.6	823.1	824.6	822.8
12.5°	844.4	847.2	844.8	833.4	815.2	803.3	796.6	797.3	800.5	801.2
15°	841.7	842.7	832.4	811.1	792.6	790.9	794.3	793.7	793.9	793.9
17.5°	841.7	838.9	819.8	798.5	790.5	787.5	776.8	763.4	757.5	755.5
20°	846.2	838.9	815.7	801.5	784.3	757.9	729.8	705.0	694.0	690.8
22.5°	859.6	847.2	827.2	802.8	754.0	709.8	665.1	635.6	615.7	612.3
25°	886.6	873.0	850.2	784.7	706.0	642.7	592.0	558.9	539.1	536.3
27.5°	934.1	925.2	862.6	744.4	642.1	574.5	527.3	502.0	487.2	486.2
30°	1005.6	1001.2	856.4	685.0	563.4	508.1	485.4	470.6	459.7	459.4
32.5°	1119.6	1083.5	836.2	612.6	491.6	461.0	451.8	442.9	434.2	434.2
35°	1266.3	1150.2	797.8	534.9	448.0	434.9	423.2	409.2	397.8	397.1
37.5°	1438.7	1191.4	728.6	472.4	427.4	417.4	400.3	379.3	359.3	355.9
40°	1612.9	1203.8	631.5	433.9	414.3	399.8	378.9	354.2	335.0	333.9
42.5°	1772.7	1180.2	528.5	407.4	401.3	382.0	360.0	338.0	322.9	322.6
45°	1906.7	1118.6	441.7	382.4	387.4	365.9	346.2	328.4	316.7	314.3
47.5°	2032.8	1031.7	381.1	355.9	373.8	356.9	340.5	323.6	312.3	310.5
50°	2179.2	937.9	338.4	330.1	361.7	353.8	345.3	327.7	308.8	306.9
52.5°	2356.4	856.9	305.1	307.5	352.4	358.0	357.6	339.4	306.4	303.6
55°	2554.3	766.9	280.0	289.0	348.7	365.5	360.7	350.3	308.5	304.3
57.5°	2749.2	661.7	262.5	274.8	343.2	364.8	345.9	331.1	313.2	307.5
60°	2895.1	520.5	249.1	262.5	331.1	353.6	329.8	310.3	312.3	307.8
62.5°	2904.7	402.4	232.9	251.9	313.0	342.2	319.2	300.9	316.7	312.6
65°	2734.0	304.0	217.5	239.0	293.3	335.0	308.8	295.8	326.1	321.6
67.5°	2301.7	244.6	204.5	226.1	273.9	319.8	299.6	291.1	334.3	326.4
70°	1661.8	208.5	191.7	210.3	256.2	302.6	291.3	282.3	311.9	299.6
72.5°	1023.1	180.6	177.2	189.4	242.9	284.9	279.0	266.3	281.0	271.1
75°	510.9	156.7	161.2	168.7	223.9	264.6	258.4	245.6	247.8	245.6
77.5°	244.6	133.9	142.2	148.1	199.7	241.6	234.9	221.9	219.5	219.8
80°	155.0	112.0	120.0	124.1	178.4	214.8	208.1	195.1	222.6	206.5
82.5°	96.8	91.1	93.2	100.7	155.2	186.8	178.4	166.6	200.6	158.7
85°	53.5	63.6	66.4	72.9	119.6	156.3	147.7	132.9	119.3	117.1
87.5°	32.0	37.8	38.8	43.7	80.4	113.0	100.0	94.9	78.7	78.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)