

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: P270180

Luminaire Tested: **GWC-AF-01-LED-E1-T3-7027-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P270180
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-01-LED-E1-T3-7027-1200
Description: GALLEON WALL LUMINAIRE
(1) 70 CRI, 2700K, 1200mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6059.7 lumens
Efficiency: N/A
Efficacy: 90.4 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

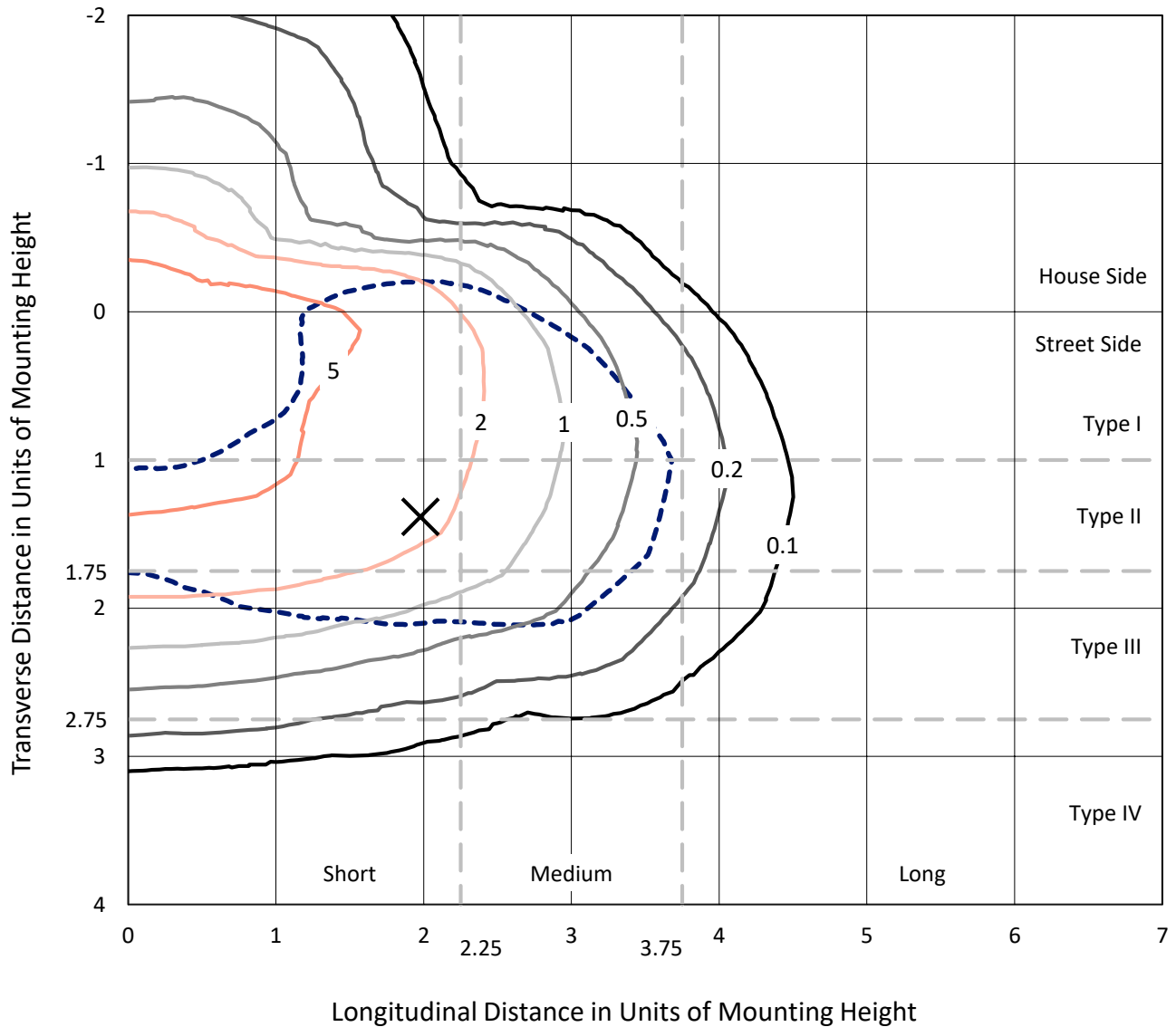
Input Watts (W): 67
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

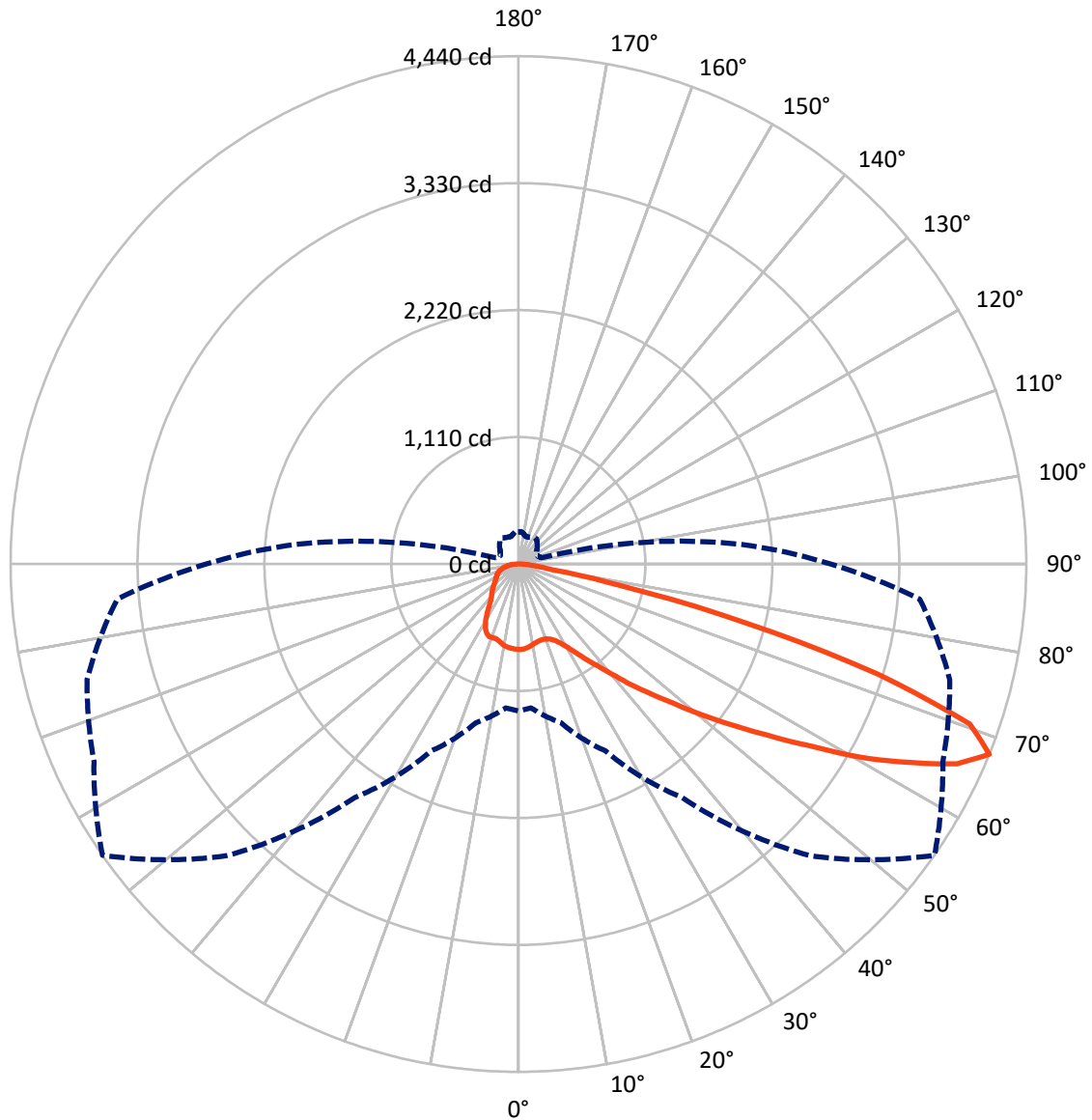
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 7.7 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	1309.0	0.0	1309.0
	% Fixture	21.6	0.0	21.6
Street Side	Lumens	4750.7	0.0	4750.7
	% Fixture	78.4	0.0	78.4
Total	Lumens	6059.7	0.0	6059.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	69.7	1.2
10°-20°	197.5	3.3
20°-30°	330.9	5.5
30°-40°	544.1	9.0
40°-50°	915.9	15.1
50°-60°	1441.6	23.8
60°-70°	1720.4	28.4
70°-80°	738.8	12.2
80°-90°	100.7	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°	6059.7	100.0
0°-180°	6059.7	100.0



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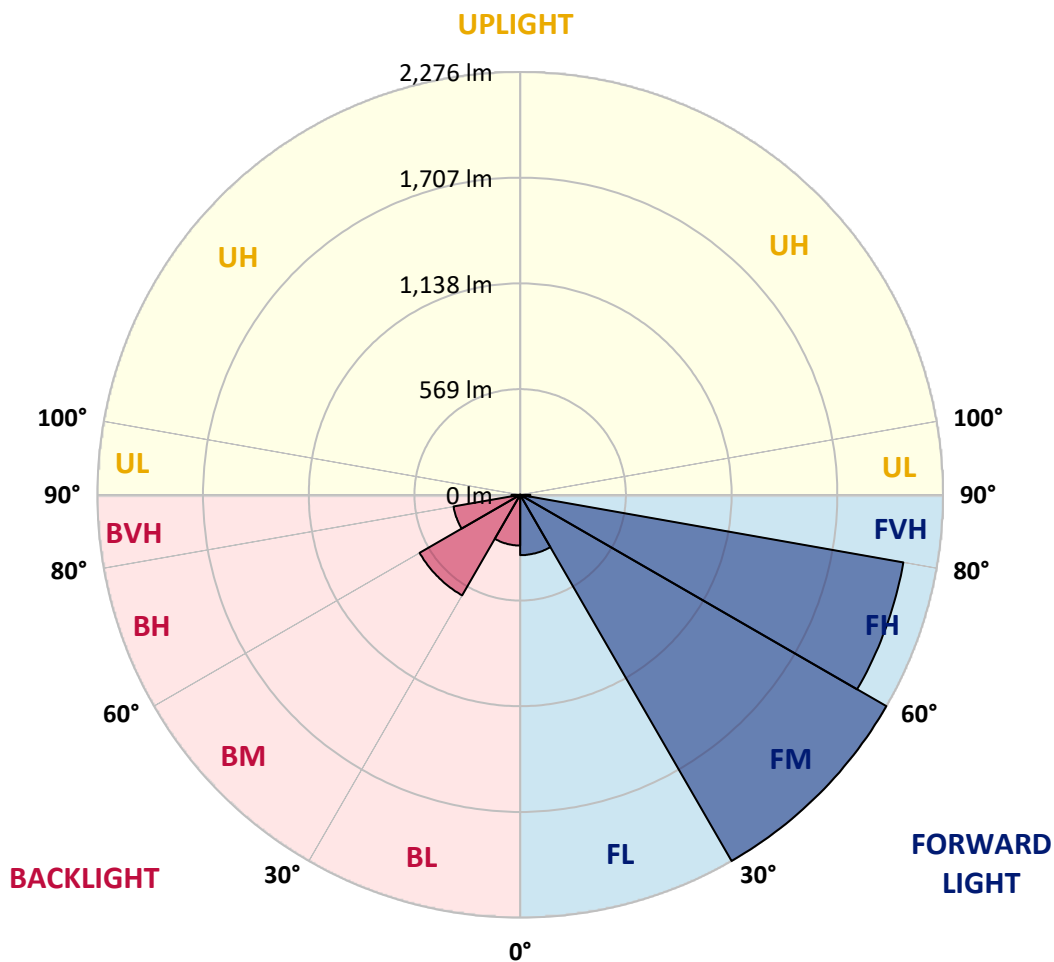
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	324.8	5.4			
FM	(30°-60°)	2276.5	37.6			
FH	(60°-80°)	2094.9	34.6			G2/5000
FVH	(80°-90°)	54.5	0.9			G1/100
BL	(0°-30°)	273.3	4.5	B1/500		
BM	(30°-60°)	625.2	10.3	B1/1000		
BH	(60°-80°)	364.3	6.0	B1/500		G1/500
BVH	(80°-90°)	46.2	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°	747.2	747.2	747.2	747.2	747.2	747.2	747.2	747.2	747.2	747.2	747.2
2.5°	740.8	741.1	741.7	743.9	746.0	745.5	745.8	744.5	744.2	742.5	744.2
5°	731.4	732.3	732.6	736.4	738.8	739.3	738.4	737.0	735.3	733.5	734.4
7.5°	710.0	712.4	712.6	717.9	721.8	726.6	727.0	727.3	726.4	725.3	727.0
10°	696.5	697.2	696.8	700.7	703.6	709.2	712.4	717.9	720.4	720.9	722.1
12.5°	695.6	695.1	694.2	694.2	693.4	695.6	701.5	709.5	715.1	716.8	718.3
15°	705.1	704.8	701.8	697.4	692.0	690.2	695.1	703.9	711.2	715.1	716.5
17.5°	726.2	724.5	719.7	709.8	697.8	693.1	693.6	700.9	709.5	714.4	715.9
20°	764.7	764.7	754.8	736.2	714.7	703.6	698.3	702.7	710.9	717.7	719.7
22.5°	831.6	832.1	815.4	784.7	748.6	725.0	711.7	710.9	720.6	728.2	730.5
25°	926.1	923.6	900.3	856.4	801.6	762.4	739.7	734.4	742.5	751.1	753.9
27.5°	1036.1	1027.7	999.9	946.9	875.9	818.6	783.5	775.1	783.0	792.6	795.4
30°	1145.0	1136.1	1103.1	1045.2	966.4	893.9	843.5	829.8	840.9	854.6	856.4
32.5°	1253.9	1253.9	1216.9	1149.4	1063.7	983.7	923.4	907.0	925.4	942.1	945.9
35°	1384.1	1384.6	1349.0	1267.6	1175.4	1090.8	1024.3	1012.4	1040.1	1051.9	1061.0
37.5°	1544.1	1547.4	1501.4	1403.2	1302.2	1213.3	1134.2	1117.9	1145.6	1177.5	1206.8
40°	1717.2	1721.3	1670.7	1549.4	1448.4	1355.5	1269.9	1240.4	1286.6	1347.5	1385.2
42.5°	1882.3	1903.2	1854.5	1729.7	1621.3	1525.0	1438.2	1395.2	1453.2	1545.1	1577.9
45°	2120.8	2136.0	2050.8	1937.9	1835.7	1728.0	1613.3	1567.9	1649.0	1764.9	1771.5
47.5°	2279.7	2268.3	2225.0	2154.8	2090.0	1989.3	1816.7	1767.0	1874.7	2011.0	1973.2
50°	2364.2	2367.8	2362.0	2366.0	2368.4	2305.2	2066.0	1997.9	2126.4	2291.1	2204.3
52.5°	2443.3	2419.9	2439.3	2535.2	2651.2	2627.7	2337.4	2266.2	2396.1	2602.0	2448.3
55°	2441.6	2405.9	2468.8	2638.2	2889.7	2916.5	2642.1	2560.1	2681.6	2935.3	2707.0
57.5°	2355.3	2357.1	2453.9	2675.7	3055.9	3188.3	2995.6	2872.7	2984.2	3273.1	2943.2
60°	2236.4	2252.5	2392.0	2669.6	3189.2	3411.0	3429.4	3209.6	3280.7	3580.1	3138.8
62.5°	2044.7	2061.7	2254.2	2605.8	3169.0	3625.5	3821.6	3591.9	3590.6	3766.2	3196.1
65°	1742.4	1737.4	1939.6	2367.3	2999.4	3784.1	4211.2	3922.3	3824.3	3769.2	3080.7
67.5°	1284.8	1262.7	1436.2	1803.0	2493.1	3606.4	4440.3	4094.4	3903.9	3521.3	2728.4
70°	666.7	644.5	784.9	1052.8	1639.6	2814.7	4186.6	4005.5	3728.0	2951.7	2137.4
72.5°	285.1	281.3	338.3	461.9	793.2	1623.5	3282.8	3466.9	3198.8	2199.2	1469.5
75°	191.7	190.5	211.9	251.7	356.7	658.8	2054.3	2460.8	2340.4	1363.5	826.5
77.5°	150.5	148.9	161.5	180.9	231.3	259.9	911.7	1321.1	1222.9	593.6	361.7
80°	117.7	116.5	124.3	134.9	166.2	163.9	300.0	525.7	406.8	227.5	175.9
82.5°	92.7	92.7	99.3	99.5	117.9	111.7	156.6	231.6	203.1	132.6	107.6
85°	84.9	84.9	91.5	74.3	77.0	70.5	97.1	137.4	128.7	54.4	46.8
87.5°	42.7	41.5	77.0	65.8	41.9	37.5	47.4	66.5	71.4	30.2	23.4
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	747.2	747.2	747.2	747.2	747.2	747.2	747.2	747.2	747.2	747.2
2.5°	743.6	743.3	743.9	744.2	746.6	749.8	751.3	753.4	754.5	753.9
5°	735.0	735.5	737.9	739.7	743.6	748.9	751.9	754.2	756.4	755.5
7.5°	727.5	729.1	732.6	734.0	736.4	737.9	737.6	738.4	740.3	738.1
10°	723.6	725.3	727.8	725.9	720.4	712.4	705.1	701.2	702.5	700.9
12.5°	719.5	721.8	719.7	710.0	694.5	684.2	678.7	679.3	682.0	682.5
15°	717.0	717.9	709.2	691.1	675.3	673.8	676.8	676.2	676.5	676.5
17.5°	717.0	714.7	698.3	680.1	673.5	670.9	661.7	650.4	645.3	643.6
20°	720.9	714.7	694.7	682.8	668.2	645.6	621.6	600.5	591.3	588.6
22.5°	732.3	721.8	704.8	684.0	642.5	604.6	566.7	541.5	524.5	521.6
25°	755.5	743.6	724.5	668.5	601.4	547.5	504.3	476.2	459.3	456.9
27.5°	795.8	788.3	735.0	634.3	547.0	489.3	449.2	427.7	415.0	414.2
30°	856.8	852.9	729.7	583.5	480.1	432.9	413.6	401.0	391.7	391.3
32.5°	953.9	923.1	712.4	521.8	418.8	392.7	384.8	377.3	369.9	369.9
35°	1078.9	980.0	679.6	455.7	381.7	370.6	360.6	348.6	338.9	338.3
37.5°	1225.7	1015.1	620.8	402.4	364.2	355.5	340.9	323.1	306.1	303.2
40°	1374.1	1025.5	537.9	369.7	352.9	340.6	322.9	301.8	285.4	284.6
42.5°	1510.2	1005.4	450.1	347.1	341.9	325.5	306.7	287.9	275.2	274.8
45°	1624.3	953.0	376.4	325.7	330.1	311.7	295.1	279.8	269.9	267.9
47.5°	1731.8	878.9	324.6	303.2	318.4	304.0	290.1	275.7	266.1	264.6
50°	1856.4	799.0	288.3	281.3	308.2	301.6	294.1	279.3	263.2	261.3
52.5°	2007.5	730.0	259.9	261.9	300.4	305.0	304.6	289.2	261.0	258.7
55°	2176.1	653.2	238.5	246.1	297.1	311.4	307.3	298.5	262.8	259.3
57.5°	2342.1	563.6	223.6	234.2	292.4	310.9	294.7	282.2	266.9	261.9
60°	2466.4	443.5	212.2	223.6	282.2	301.2	281.0	264.3	266.1	262.2
62.5°	2474.7	342.8	198.4	214.5	266.6	291.5	271.8	256.3	269.9	266.3
65°	2329.1	259.0	185.3	203.7	250.0	285.4	263.2	252.1	277.8	274.0
67.5°	1961.0	208.3	174.1	192.5	233.3	272.5	255.2	247.9	284.9	278.0
70°	1415.6	177.7	163.3	179.1	218.4	257.9	248.2	240.6	265.8	255.2
72.5°	871.6	154.0	151.1	161.2	206.9	242.6	237.6	226.8	239.4	231.0
75°	435.1	133.5	137.4	143.6	190.8	225.4	220.2	209.2	211.0	209.2
77.5°	208.3	114.2	121.2	126.1	170.0	205.7	200.2	189.1	187.0	187.3
80°	132.1	95.4	102.1	105.7	152.0	183.0	177.3	166.2	189.6	175.9
82.5°	82.6	77.6	79.3	85.8	132.3	159.2	152.0	141.9	170.9	135.3
85°	45.6	54.2	56.6	62.1	101.9	133.2	125.9	113.2	101.6	99.8
87.5°	27.2	32.2	33.1	37.2	68.5	96.3	85.2	80.8	67.1	66.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)