

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: P450269

Luminaire Tested: **GALN-SA1A-740-U-T3-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P450269
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-13)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA1A-740-U-T3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 4000K, 615mA LIGHTSQUARE WITH 16 LEDS AND TYPE III OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3397 lumens
Efficiency: N/A
Efficacy: 102.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B0 - U0 - G1

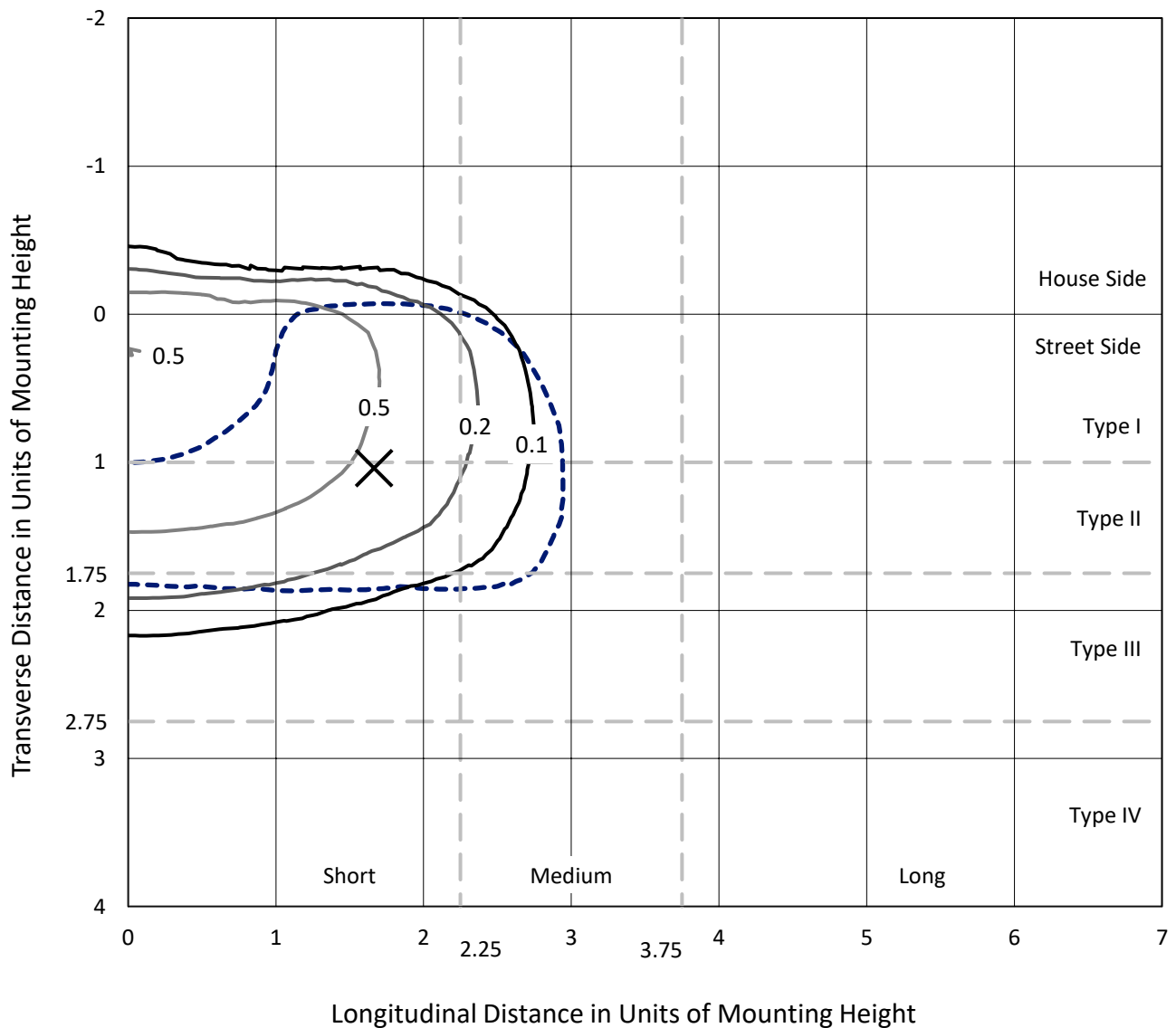
Input Watts (W): 33
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

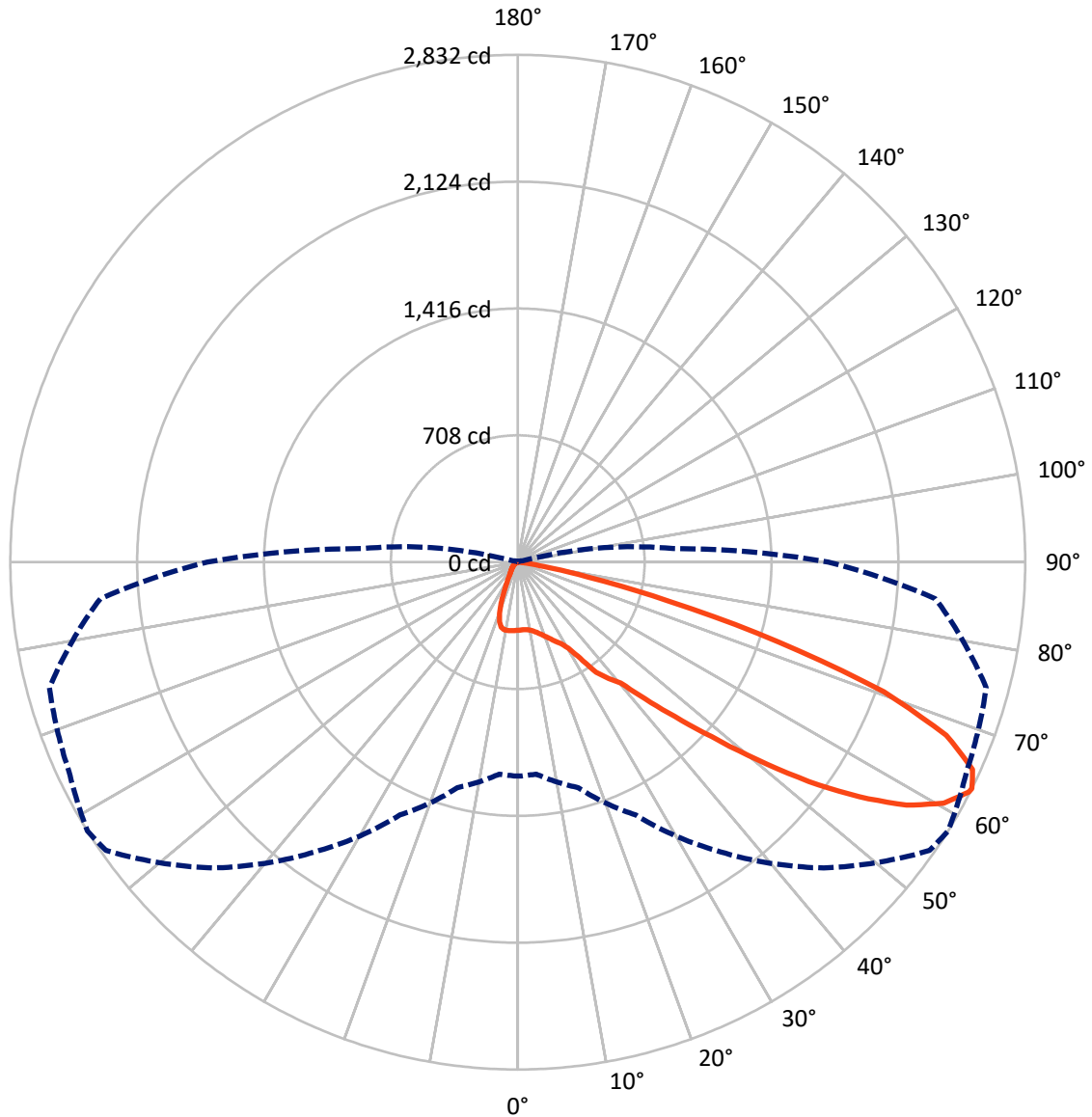
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.8 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 63-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	351.7	0.0	351.7
	% Fixture	10.4	0.0	10.4
Street Side	Lumens	3045.3	0.0	3045.3
	% Fixture	89.6	0.0	89.6
Total	Lumens	3397.0	0.0	3397.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	35.6	1.0
10°-20°	97.0	2.9
20°-30°	168.3	5.0
30°-40°	309.3	9.1
40°-50°	582.2	17.1
50°-60°	995.7	29.3
60°-70°	953.4	28.1
70°-80°	243.1	7.2
80°-90°	12.4	0.4
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°	3397.0	100.0
0°-180°	3397.0	100.0

Coefficient of Utilization



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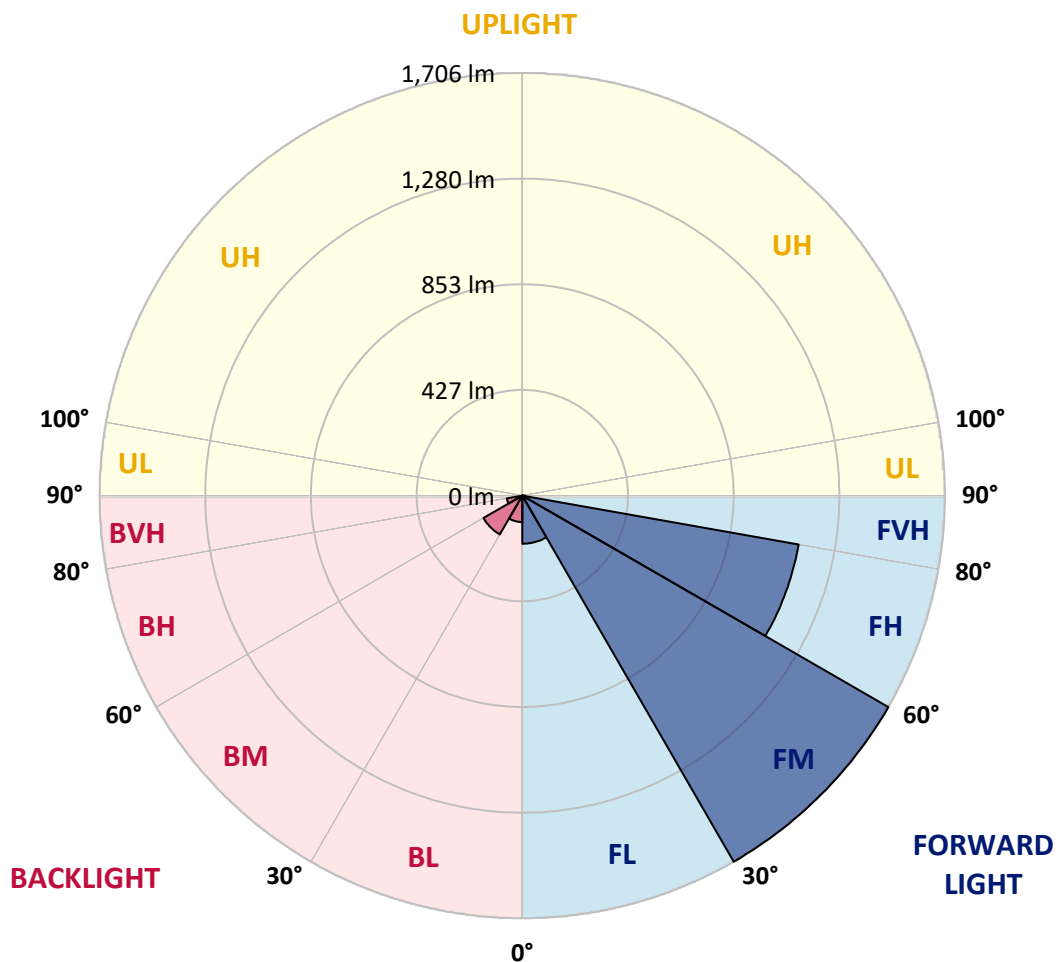
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	194.2	5.7			
FM (30°-60°)	1706.2	50.2			
FH (60°-80°)	1132.9	33.3			G1/1800
FVH (80°-90°)	12.0	0.4			G1/100
BL (0°-30°)	106.7	3.1	B0/110		
BM (30°-60°)	180.9	5.3	B0/220		
BH (60°-80°)	63.7	1.9	B0/110		G0/110
BVH (80°-90°)	0.5	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G1

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	380.3	380.3	380.3	380.3	380.3	380.3	380.3	380.3	380.3	380.3	380.3
2.5°	370.8	372.1	373.4	373.9	375.7	377.5	378.8	378.5	380.6	381.6	381.6
5°	356.0	356.0	359.3	362.4	367.5	372.6	377.5	378.5	382.4	385.9	387.2
7.5°	343.5	344.2	346.8	352.4	359.3	368.3	378.0	380.3	387.0	394.9	398.2
10°	337.6	338.1	341.4	347.3	356.0	368.3	381.8	386.2	396.4	409.0	413.6
12.5°	336.3	337.1	340.4	347.1	357.0	371.9	390.3	394.9	409.7	425.8	432.7
15°	338.6	339.1	342.5	349.6	360.6	378.3	401.5	407.9	425.6	444.2	453.2
17.5°	346.8	346.3	348.6	354.5	366.8	386.2	415.1	422.8	443.5	469.1	474.9
20°	381.6	378.3	376.2	371.1	376.0	397.4	431.5	442.7	468.3	494.4	498.5
22.5°	456.5	449.1	434.5	414.6	399.2	412.8	451.2	464.2	497.2	522.8	522.8
25°	551.9	542.5	527.9	484.4	446.8	438.1	473.4	489.8	528.6	554.5	546.0
27.5°	671.4	663.9	635.6	584.9	527.4	482.4	499.2	514.3	556.5	587.7	570.1
30°	768.5	765.0	741.7	696.4	633.0	567.3	547.3	557.3	593.6	629.7	611.5
32.5°	850.6	850.6	826.9	784.7	725.3	667.0	628.9	636.1	670.8	712.5	678.8
35°	940.9	937.9	918.7	878.5	812.0	760.6	745.0	754.7	786.2	817.1	734.0
37.5°	1035.8	1034.8	1014.8	976.0	921.7	857.0	820.5	823.0	839.1	858.1	798.7
40°	1138.9	1140.4	1114.3	1090.3	1039.1	972.9	902.8	886.7	901.8	955.2	918.2
42.5°	1260.6	1257.0	1245.8	1213.0	1171.9	1132.2	1048.1	1042.2	1055.5	1112.8	1072.6
45°	1402.0	1407.2	1387.7	1369.6	1341.9	1309.0	1238.6	1228.4	1243.0	1332.0	1274.9
47.5°	1543.7	1538.9	1551.4	1548.1	1562.9	1538.4	1476.2	1455.2	1490.3	1574.7	1490.8
50°	1651.7	1657.0	1683.1	1721.2	1784.9	1798.7	1739.1	1732.0	1747.6	1801.8	1683.9
52.5°	1721.7	1739.6	1780.6	1878.5	1993.4	2082.6	2037.3	2033.5	2027.1	2041.7	1868.5
55°	1767.5	1785.7	1839.1	1983.4	2181.1	2326.1	2328.4	2312.0	2269.8	2259.3	2041.2
57.5°	1739.4	1743.0	1819.2	2012.0	2285.2	2499.7	2574.9	2558.6	2480.6	2440.9	2193.6
60°	1563.4	1570.8	1677.0	1903.6	2239.9	2556.5	2738.4	2730.9	2645.5	2600.8	2312.3
62.5°	1251.7	1273.1	1382.4	1635.0	2029.4	2460.9	2804.6	2825.6	2759.1	2697.4	2349.6
63°	1194.4	1187.5	1302.8	1556.8	1973.7	2413.6	2805.6	2832.2	2764.2	2706.7	2339.4
65°	884.1	904.9	979.8	1227.6	1642.5	2193.4	2742.5	2789.5	2745.3	2666.0	2226.1
67.5°	496.4	495.4	578.3	803.3	1149.6	1720.5	2479.8	2579.3	2570.1	2392.3	1845.3
70°	243.0	246.8	280.8	416.4	666.8	1187.0	2060.6	2168.0	2171.4	1879.0	1276.0
72.5°	110.0	111.8	136.1	202.8	342.7	632.0	1420.0	1522.5	1503.6	1197.4	704.6
75°	58.1	61.9	74.9	102.0	165.2	260.6	772.4	871.6	832.0	547.1	259.3
77.5°	43.0	44.2	50.9	65.0	88.5	101.5	333.2	396.4	371.4	198.0	85.9
80°	31.5	32.5	37.9	46.0	55.8	51.7	125.6	144.0	129.2	67.3	26.3
82.5°	19.2	19.4	27.6	34.3	35.0	28.9	41.4	44.5	46.5	37.9	14.3
85°	6.9	8.7	18.7	24.8	20.7	14.6	17.4	19.2	21.0	24.0	8.4
87.5°	0.8	1.0	9.0	12.0	5.9	5.4	6.4	7.2	7.7	9.0	4.1
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°	380.3	380.3	380.3	380.3	380.3	380.3	380.3	380.3	380.3	380.3	380.3
2.5°	382.6	383.6	382.9	381.6	381.3	380.6	379.0	379.0	379.0	379.5	379.0
5°	388.2	389.0	387.2	384.7	381.8	378.3	374.4	372.1	371.9	371.4	370.1
7.5°	399.0	400.0	395.9	389.8	382.1	373.4	365.2	357.5	354.0	351.2	351.2
10°	414.6	415.6	407.4	396.4	381.1	363.4	344.0	326.3	312.5	306.1	304.6
12.5°	433.2	433.8	420.2	401.0	375.7	341.7	300.3	261.6	234.8	222.5	221.2
15°	453.7	450.1	432.2	402.8	360.4	296.9	225.3	178.0	150.1	141.9	145.0
17.5°	474.4	467.8	441.4	400.0	325.8	225.3	151.4	121.5	112.8	110.5	110.5
20°	493.9	484.7	448.1	387.7	266.0	155.2	112.3	105.1	103.6	102.0	102.3
22.5°	513.3	499.2	454.0	360.4	198.2	111.0	100.5	98.2	96.2	94.1	93.9
25°	532.2	512.8	456.3	309.7	135.0	95.4	91.8	88.7	84.7	82.4	81.8
27.5°	551.9	529.2	454.7	245.8	98.5	85.4	81.8	77.5	72.6	68.5	68.5
30°	589.8	560.4	449.4	176.7	82.9	75.2	70.6	63.7	58.3	54.2	54.0
32.5°	641.4	601.0	430.9	124.3	73.7	66.2	59.3	51.7	46.0	43.0	43.0
35°	687.5	641.9	396.4	91.6	66.2	57.5	49.1	41.7	37.3	35.3	34.5
37.5°	757.5	701.8	348.8	74.4	59.1	49.9	41.2	34.3	30.7	29.2	29.2
40°	862.7	774.9	290.5	65.2	52.2	42.5	34.3	28.9	26.1	24.3	24.3
42.5°	993.1	864.5	231.5	58.6	45.8	36.6	28.6	24.6	22.0	20.7	20.5
45°	1157.3	958.8	178.3	52.4	40.7	31.2	24.3	20.7	18.2	17.4	17.6
47.5°	1328.6	1041.9	138.1	47.1	35.3	26.3	20.7	17.9	16.1	15.1	15.1
50°	1474.9	1099.2	104.9	40.9	31.2	22.3	18.2	16.1	14.6	14.1	13.8
52.5°	1597.2	1115.9	80.3	35.5	27.4	19.2	16.1	14.6	13.3	12.5	12.5
55°	1701.3	1101.3	62.9	29.9	23.0	16.6	14.3	13.0	11.5	10.7	10.5
57.5°	1762.2	1054.5	48.1	24.8	18.7	13.8	12.5	11.0	9.2	7.9	7.9
60°	1792.8	986.4	36.8	20.5	14.3	11.0	10.2	8.2	6.4	5.4	5.1
62.5°	1756.0	896.2	27.9	16.1	10.7	8.2	6.9	5.9	4.1	3.1	3.1
63°	1733.2	870.1	26.9	15.3	10.0	7.7	6.4	5.4	3.6	2.8	2.6
65°	1580.1	756.3	22.0	12.3	7.9	5.4	4.3	3.8	2.6	1.3	1.0
67.5°	1254.7	578.5	17.4	9.2	5.6	3.8	2.6	2.3	0.8	0.0	0.0
70°	848.3	373.7	13.6	6.6	3.8	2.3	1.3	1.0	0.3	0.0	0.0
72.5°	442.5	191.6	10.5	4.9	2.3	1.5	0.8	0.3	0.0	0.0	0.0
75°	156.5	65.2	7.7	3.1	1.5	0.8	0.3	0.0	0.0	0.0	0.0
77.5°	47.3	24.3	4.9	2.3	1.0	0.5	0.0	0.0	0.0	0.0	0.0
80°	16.6	9.0	2.8	1.5	0.8	0.3	0.0	0.0	0.0	0.0	0.0
82.5°	8.2	4.3	1.8	1.3	0.8	0.3	0.0	0.0	0.0	0.0	0.0
85°	4.6	2.8	1.5	1.3	0.8	0.5	0.0	0.0	0.0	0.0	0.0
87.5°	3.3	2.0	1.5	1.3	1.0	0.5	0.3	0.0	0.0	0.0	0.0
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)