

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: P450196

Luminaire Tested: **GALN-SA1A-727-U-SL2-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P450196
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-15)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA1A-727-U-SL2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 2700K, 615mA LIGHTSQUARE WITH 16 LEDS AND TYPE II SPILL LIGHT
ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3167 lumens
Efficiency: N/A
Efficacy: 96.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B0 - U0 - G1

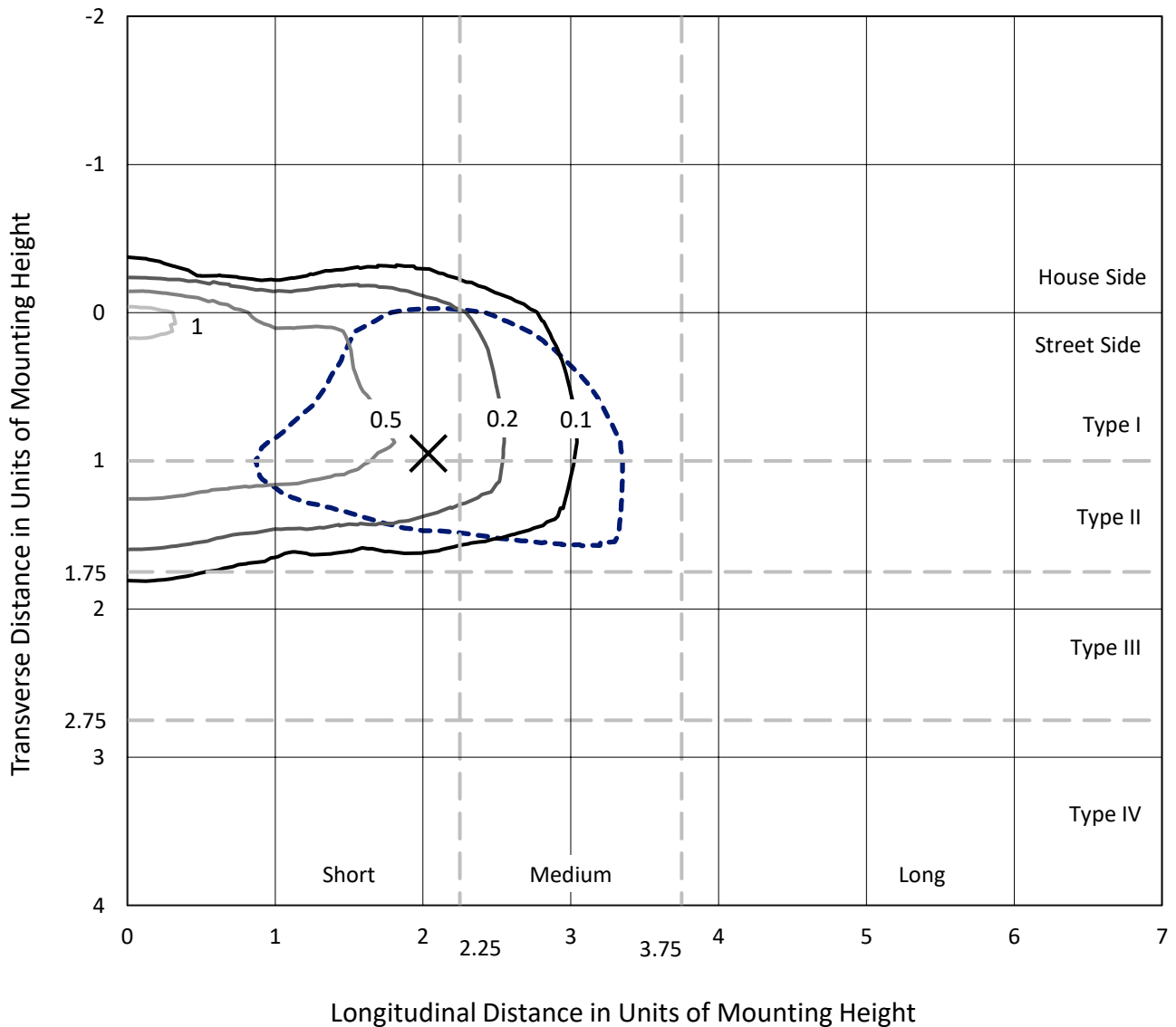
Input Watts (W): 33
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

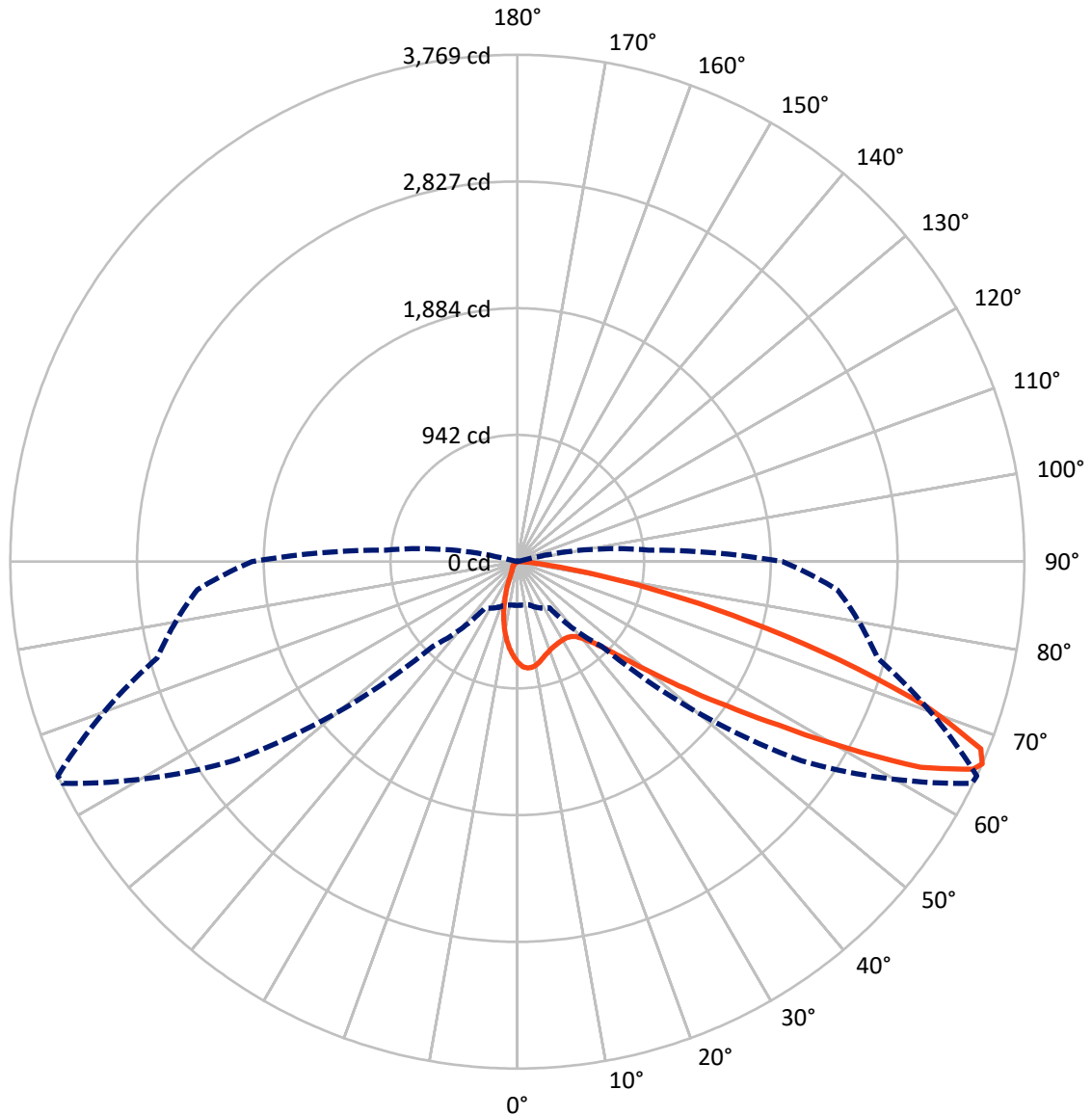
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	327.5	0.0	327.5
	% Fixture	10.3	0.0	10.3
Street Side	Lumens	2839.5	0.0	2839.5
	% Fixture	89.7	0.0	89.7
Total	Lumens	3167.0	0.0	3167.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	61.4	1.9
10°-20°	133.8	4.2
20°-30°	191.7	6.1
30°-40°	280.0	8.8
40°-50°	469.5	14.8
50°-60°	783.6	24.7
60°-70°	831.7	26.3
70°-80°	376.7	11.9
80°-90°	38.5	1.2
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°	3167.0	100.0
0°-180°	3167.0	100.0

Coefficient of Utilization



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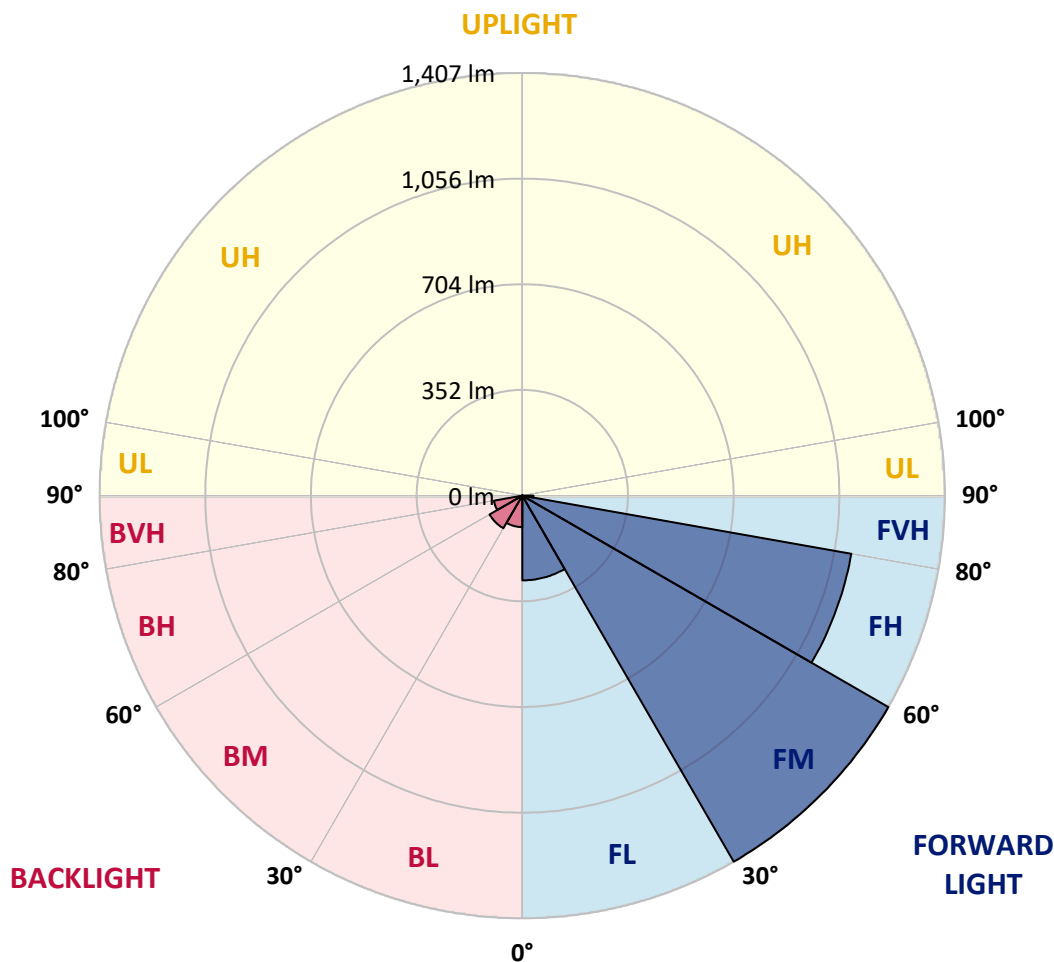
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	282.2	8.9			
FM (30°-60°)	1407.5	44.4			
FH (60°-80°)	1112.5	35.1			G1/1800
FVH (80°-90°)	37.3	1.2			G1/100
BL (0°-30°)	104.8	3.3	B0/110		
BM (30°-60°)	125.6	4.0	B0/220		
BH (60°-80°)	95.9	3.0	B0/110		G0/110
BVH (80°-90°)	1.2	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 II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	751.0	751.0	751.0	751.0	751.0	751.0	751.0	751.0	751.0	751.0	751.0
2.5°	791.4	792.3	793.4	794.9	795.9	792.7	788.2	783.1	782.0	771.1	757.9
5°	749.1	750.4	759.8	764.9	776.5	786.9	793.6	794.4	794.0	783.7	762.6
7.5°	688.8	692.4	701.6	710.6	732.2	752.1	775.6	792.1	793.2	790.4	764.1
10°	639.8	642.1	646.8	664.6	682.6	712.9	745.9	776.9	779.5	790.6	762.8
12.5°	601.5	604.9	610.7	624.4	646.0	674.6	712.1	753.8	759.1	786.5	759.1
15°	574.8	576.5	582.2	595.7	616.7	643.2	681.1	729.6	734.3	781.2	758.5
17.5°	562.1	564.1	568.1	578.8	596.1	620.7	657.8	710.2	716.1	777.8	760.9
20°	565.6	567.3	567.5	573.0	584.8	605.6	640.6	692.0	699.7	775.6	764.7
22.5°	585.0	585.2	582.7	580.1	584.2	599.1	630.2	680.4	688.3	775.2	769.2
25°	614.1	614.8	610.5	601.5	593.4	601.1	627.8	672.9	680.0	774.1	772.0
27.5°	654.3	654.1	652.8	637.9	614.8	609.6	629.7	668.9	674.9	771.1	773.0
30°	710.6	708.9	706.1	689.2	653.9	630.4	637.9	666.3	671.9	766.8	770.3
32.5°	766.0	772.4	772.0	755.9	711.9	667.4	654.8	669.7	673.8	764.1	766.2
35°	830.6	830.4	846.8	840.9	789.3	714.6	683.6	681.1	684.3	766.0	764.3
37.5°	890.5	896.0	921.7	927.9	880.9	781.4	724.5	705.5	706.5	779.0	769.0
40°	965.1	975.8	1014.1	1034.9	993.4	880.4	784.8	750.2	750.4	811.1	786.7
42.5°	1061.4	1078.3	1114.0	1148.7	1126.4	997.6	875.3	821.0	820.5	867.6	827.4
45°	1178.4	1190.2	1230.8	1285.8	1271.7	1161.3	1007.1	930.7	925.1	960.2	899.5
47.5°	1279.4	1295.4	1336.7	1399.4	1463.5	1361.1	1164.5	1081.5	1077.9	1107.6	1023.1
50°	1323.4	1337.5	1381.0	1468.9	1624.4	1623.3	1398.9	1301.6	1295.4	1311.4	1214.3
52.5°	1275.1	1288.3	1332.2	1441.7	1700.1	1942.9	1738.6	1577.7	1570.3	1549.7	1442.8
55°	1109.5	1120.4	1185.2	1311.0	1671.0	2155.9	2206.6	1918.9	1889.8	1810.0	1701.4
57.5°	883.4	877.9	918.1	1064.2	1500.3	2227.4	2687.0	2343.9	2292.0	2035.1	1920.2
60°	612.2	629.3	645.6	741.8	1128.1	2103.5	2985.9	2878.3	2809.8	2256.5	2129.8
62.5°	450.1	461.4	472.1	516.6	709.3	1679.6	3038.7	3427.1	3366.4	2491.5	2329.8
65°	355.9	356.8	361.1	404.9	467.4	1092.2	2784.8	3736.7	3721.1	2717.8	2410.9
66°	324.3	324.5	331.1	378.2	419.5	889.4	2581.4	3760.2	3768.8	2772.2	2387.2
67.5°	283.4	282.6	292.2	339.9	382.0	641.3	2217.3	3664.8	3715.5	2813.9	2301.8
70°	219.7	218.6	230.4	285.1	351.9	427.8	1473.8	3146.7	3228.4	2728.5	2036.6
72.5°	146.3	147.2	167.3	225.0	335.8	376.7	886.6	2393.8	2509.3	2253.3	1602.1
75°	85.3	86.8	109.7	167.3	291.5	359.1	501.8	1706.9	1780.7	1555.9	998.1
77.5°	44.7	45.3	61.4	110.4	223.5	333.5	334.3	1090.5	1125.1	756.1	395.1
80°	23.7	23.1	32.9	66.5	153.8	292.8	271.2	577.3	600.2	224.6	99.9
82.5°	9.0	9.8	17.5	43.6	90.9	210.3	233.6	255.2	247.3	49.4	41.9
85°	1.7	2.1	7.5	25.9	45.8	87.9	172.2	125.1	115.9	18.6	24.2
87.5°	0.2	0.4	2.1	6.2	6.6	29.7	50.9	34.7	29.9	6.8	10.1
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°	751.0	751.0	751.0	751.0	751.0	751.0	751.0	751.0	751.0	751.0	751.0
2.5°	751.4	745.7	726.4	707.4	687.9	670.4	658.4	638.9	634.0	626.9	622.9
5°	749.9	736.5	699.5	659.0	621.4	580.7	549.7	519.8	503.7	495.6	492.6
7.5°	745.7	724.3	666.5	603.2	542.9	482.1	429.3	389.1	363.2	345.5	333.5
10°	737.1	707.6	628.2	541.2	450.1	369.8	302.9	252.0	212.6	200.2	200.6
12.5°	728.3	689.0	585.5	472.3	359.4	258.2	187.2	147.0	128.1	121.9	120.6
15°	720.2	671.2	543.5	405.6	267.6	167.3	120.6	106.5	101.4	100.3	100.1
17.5°	715.9	654.8	498.8	329.2	186.7	113.6	96.7	92.8	91.3	90.3	89.8
20°	712.3	640.4	456.0	257.8	127.7	93.0	86.6	83.0	80.4	79.4	78.7
22.5°	709.7	625.7	411.8	199.6	97.8	82.6	76.8	72.1	68.4	67.2	66.3
25°	705.9	609.4	367.1	145.9	82.4	73.4	66.7	61.2	56.5	54.1	53.7
27.5°	700.3	591.0	318.1	108.0	73.6	65.2	57.1	50.3	45.6	43.0	43.2
30°	691.3	571.8	269.1	85.8	66.5	56.9	48.1	41.5	37.0	35.1	34.9
32.5°	680.6	548.4	224.2	73.6	60.1	49.4	40.2	34.4	31.0	29.5	29.3
35°	670.6	524.9	178.4	66.1	53.5	42.6	33.8	28.9	26.3	25.0	25.2
37.5°	665.0	504.0	139.0	60.1	48.1	36.6	29.1	24.8	22.5	21.4	21.2
40°	668.7	486.8	110.6	54.8	42.1	31.4	25.0	21.4	19.0	17.5	17.5
42.5°	685.8	479.4	89.2	49.6	36.6	27.2	21.8	18.4	15.8	14.3	14.5
45°	738.0	487.3	74.7	44.9	31.4	23.5	18.8	15.2	12.8	11.8	11.6
47.5°	824.6	517.0	64.6	40.0	27.0	20.1	15.8	12.6	10.3	9.4	9.2
50°	976.0	578.4	57.1	35.1	22.9	17.1	13.0	10.1	8.1	7.3	7.3
52.5°	1184.4	712.3	51.8	29.5	19.3	14.5	10.7	8.1	6.4	5.8	5.6
55°	1402.1	853.5	49.0	24.8	16.0	12.0	8.6	6.4	4.9	4.3	4.1
57.5°	1611.5	964.3	45.8	20.1	12.8	9.2	6.6	4.9	3.4	3.0	2.8
60°	1812.4	1053.9	38.9	16.0	10.1	6.6	4.9	3.4	2.4	1.9	1.9
62.5°	1992.1	1106.1	30.6	12.8	7.7	4.7	3.2	2.6	1.7	1.3	1.3
65°	2013.0	1038.3	23.1	9.8	5.6	3.0	1.9	1.9	1.3	0.9	0.9
66°	1970.9	980.7	20.3	9.0	4.9	2.6	1.7	1.5	1.1	0.6	0.6
67.5°	1876.8	882.6	17.5	7.7	4.1	1.9	1.3	1.3	0.9	0.4	0.4
70°	1621.6	720.9	13.9	5.8	3.0	1.5	0.9	0.9	0.6	0.4	0.4
72.5°	1235.9	538.2	11.3	4.3	2.1	1.1	0.6	0.6	0.6	0.4	0.4
75°	745.5	289.8	8.8	3.2	1.9	0.9	0.4	0.6	0.9	0.6	0.4
77.5°	274.7	98.6	6.8	2.6	1.5	0.9	0.4	0.4	0.9	0.6	0.6
80°	67.4	25.7	4.9	2.1	1.5	0.9	0.4	0.4	0.9	0.9	0.9
82.5°	31.2	10.9	3.4	1.9	1.5	0.9	0.4	0.4	0.6	0.9	0.9
85°	18.0	5.1	2.8	2.1	1.5	0.9	0.4	0.4	0.6	0.9	0.9
87.5°	7.3	2.6	2.6	2.1	1.7	1.1	0.4	0.4	0.4	0.6	0.6
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)