

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: P450445

Luminaire Tested: **GALN-SA1B-727-U-T3R-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P450445
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-9)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA1B-727-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 2700K, 800mA LIGHTSQUARE WITH 16 LEDS AND TYPE III ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3770 lumens
Efficiency: N/A
Efficacy: 85.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G1

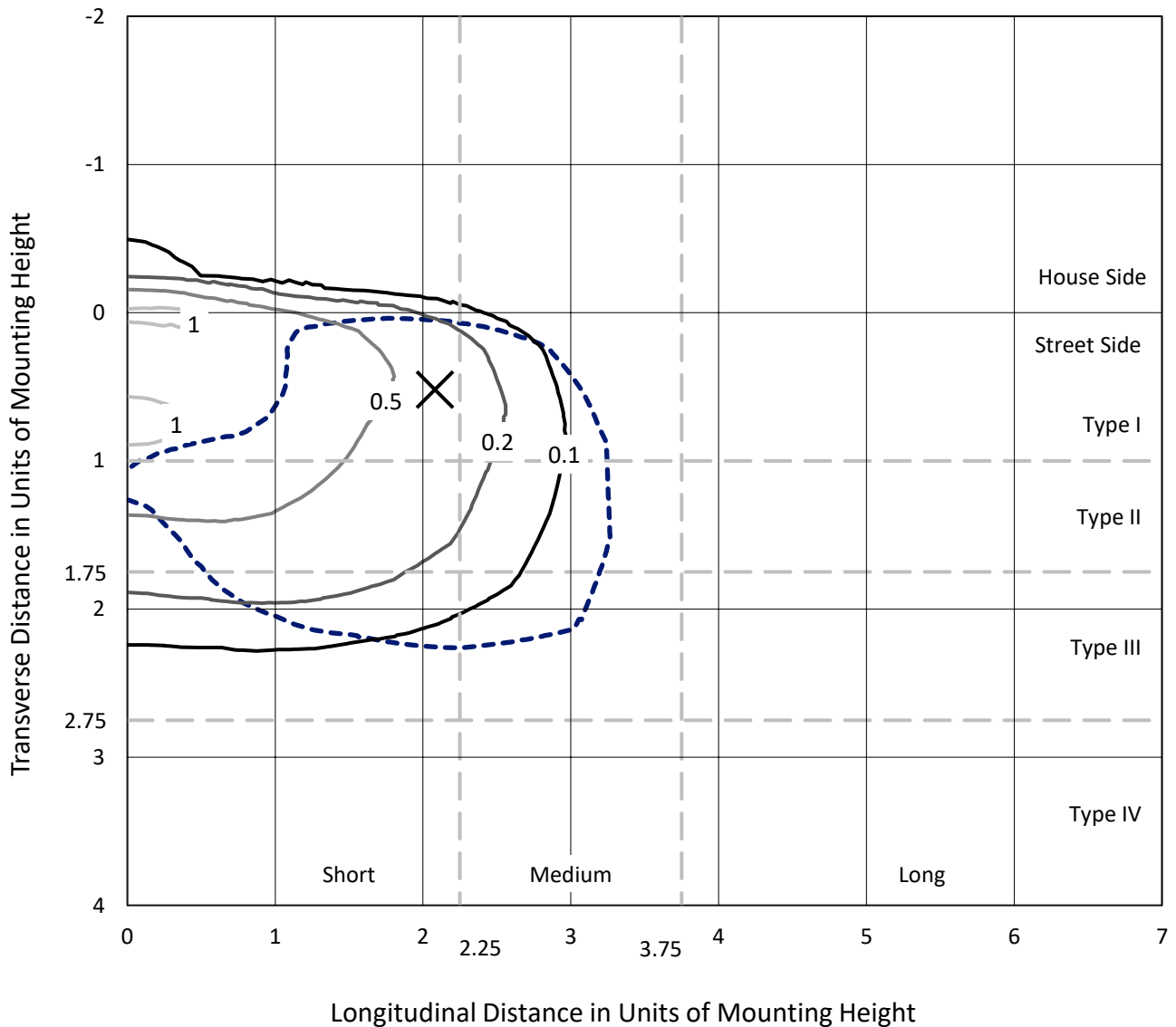
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

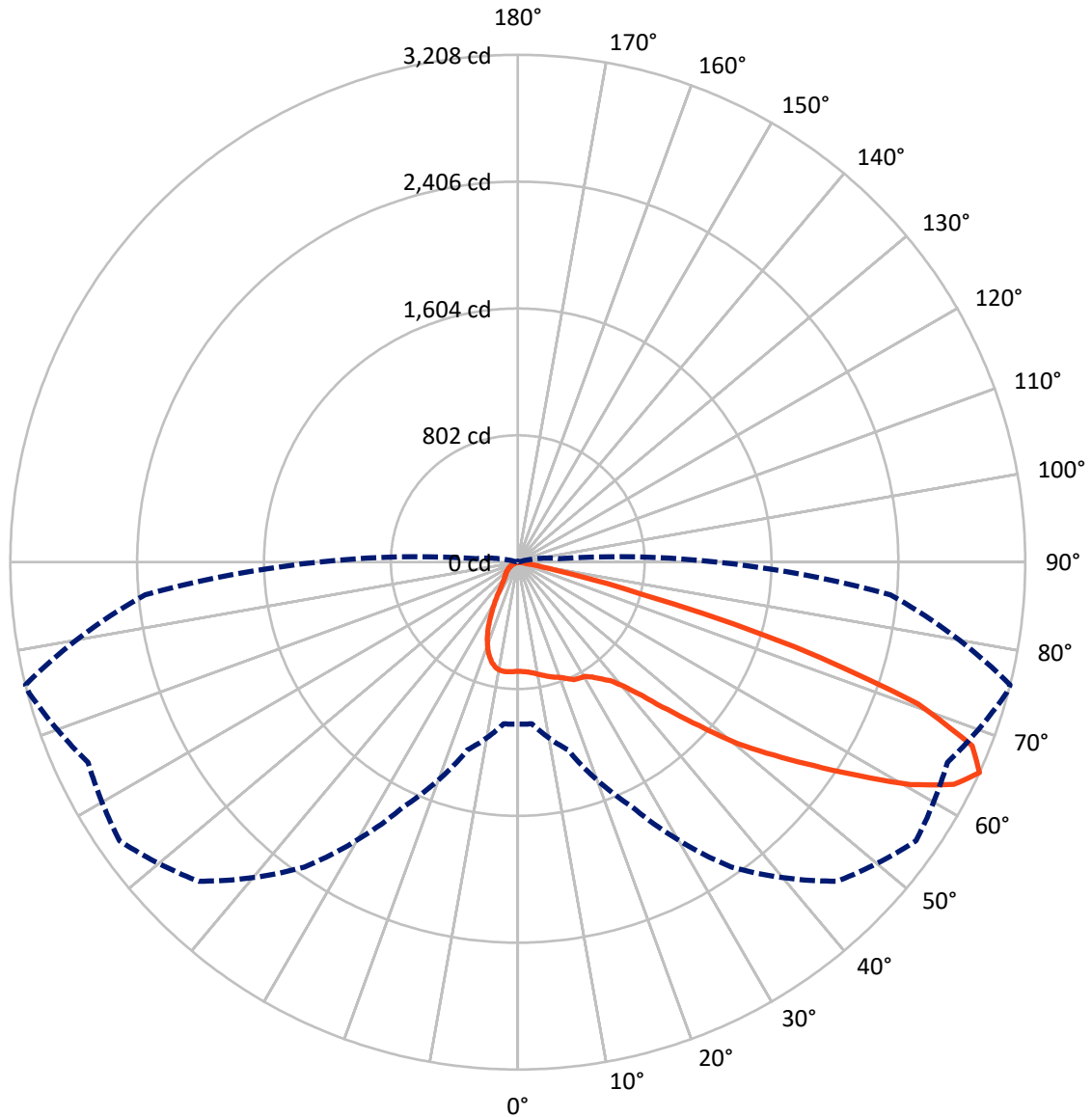
✕ Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	272.3	0.0	272.3
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	3497.7	0.0	3497.7
	% Fixture	92.8	0.0	92.8
Total	Lumens	3770.0	0.0	3770.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	56.8	1.5
10°-20°	126.5	3.4
20°-30°	203.8	5.4
30°-40°	354.4	9.4
40°-50°	585.7	15.5
50°-60°	904.7	24.0
60°-70°	1104.8	29.3
70°-80°	419.3	11.1
80°-90°	14.0	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°	3770.0	100.0
0°-180°	3770.0	100.0



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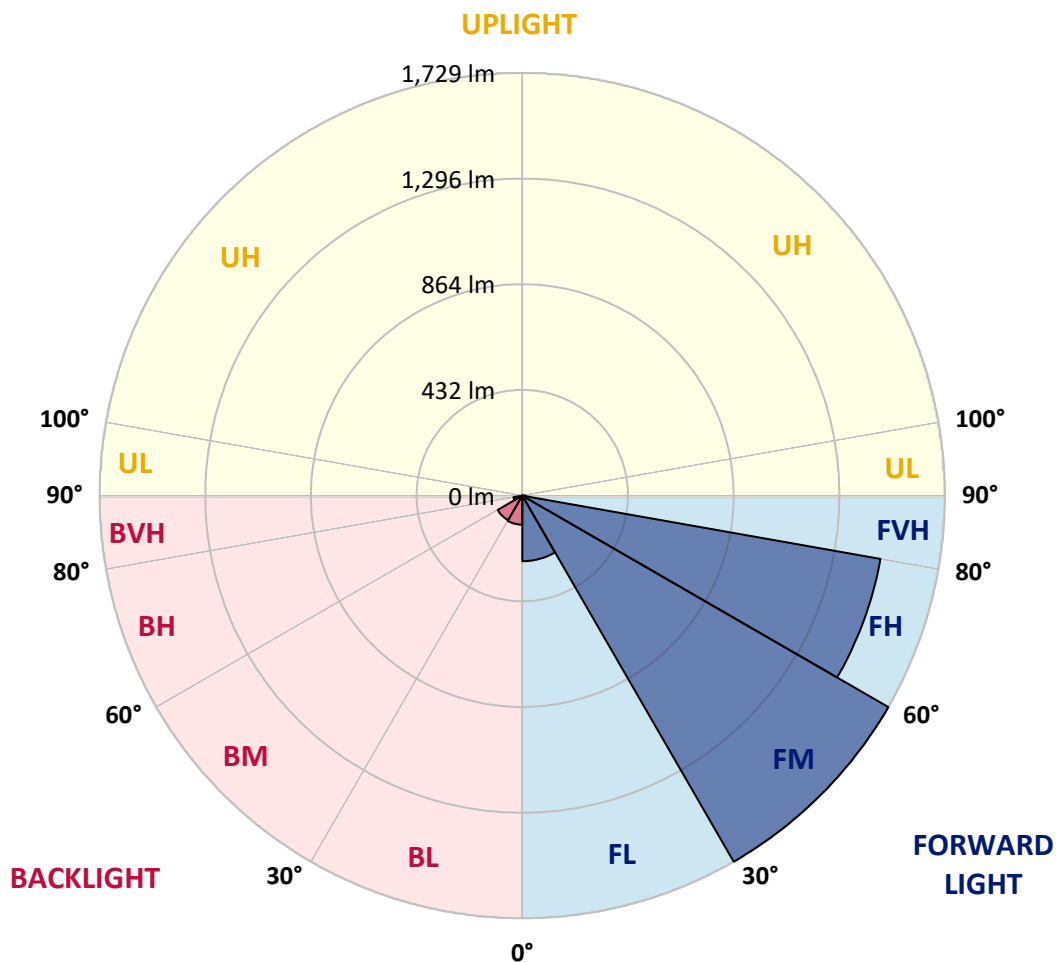
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	268.2	7.1			
FM (30°-60°)	1728.6	45.9			
FH (60°-80°)	1487.1	39.4			G1/1800
FVH (80°-90°)	13.8	0.4			G1/100
BL (0°-30°)	118.9	3.2	B1/500		
BM (30°-60°)	116.2	3.1	B0/220		
BH (60°-80°)	36.9	1.0	B0/110		G0/110
BVH (80°-90°)	0.2	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	689.7	689.7	689.7	689.7	689.7	689.7	689.7	689.7	689.7	689.7	689.7
2.5°	659.0	659.3	660.9	664.9	671.0	676.1	680.3	687.3	692.0	692.6	694.2
5°	613.5	610.3	613.5	623.9	633.2	647.3	664.6	681.9	697.4	698.4	705.9
7.5°	562.4	565.1	570.1	580.8	598.4	619.9	644.9	675.8	705.1	707.8	722.4
10°	510.5	516.4	524.6	540.9	565.4	593.3	627.4	671.6	717.3	721.1	746.3
12.5°	462.6	465.3	475.4	497.2	527.6	566.9	614.1	669.2	730.9	735.4	771.9
15°	425.9	429.3	438.1	457.8	491.6	542.2	603.1	668.4	744.2	750.6	797.5
17.5°	419.0	421.1	424.8	438.1	467.7	522.5	593.3	668.1	757.0	764.7	821.1
20°	447.4	445.6	441.8	440.5	456.8	507.3	586.1	670.2	769.2	778.0	846.2
22.5°	518.8	521.2	499.3	473.5	468.2	504.9	585.0	680.3	788.7	799.1	874.1
25°	670.2	651.9	617.8	556.0	509.5	519.6	597.0	704.3	811.3	822.7	899.4
27.5°	837.6	832.1	779.1	677.4	590.6	550.4	618.3	722.7	818.7	830.5	913.8
30°	1002.1	1008.8	948.1	835.8	708.6	607.7	638.3	729.6	825.4	837.6	932.1
32.5°	1154.7	1162.6	1109.4	998.1	847.5	706.7	672.6	756.5	853.3	865.9	962.7
35°	1274.7	1275.8	1235.6	1146.9	999.2	827.0	746.9	803.6	891.1	905.8	995.2
37.5°	1384.9	1383.3	1336.2	1259.8	1125.6	946.5	840.3	857.9	934.3	949.4	1042.1
40°	1466.6	1467.7	1452.5	1380.6	1243.6	1057.0	914.3	908.7	1006.7	1030.4	1110.2
42.5°	1521.2	1531.0	1538.5	1502.0	1391.8	1193.0	1028.0	1017.6	1132.3	1152.0	1206.6
45°	1565.4	1582.9	1620.2	1618.3	1534.2	1359.9	1183.9	1162.6	1310.4	1331.4	1329.3
47.5°	1597.6	1615.4	1677.2	1714.4	1668.1	1521.7	1380.1	1361.7	1523.0	1545.9	1464.7
50°	1614.1	1635.4	1714.2	1786.3	1772.7	1677.7	1603.7	1604.8	1779.9	1802.0	1621.8
52.5°	1575.5	1603.2	1733.8	1863.7	1890.1	1827.0	1813.2	1848.3	2008.5	2027.4	1763.7
55°	1452.2	1487.1	1707.0	1929.8	2026.1	2003.2	2051.1	2104.6	2258.5	2270.7	1909.3
57.5°	1374.2	1411.2	1627.6	1985.9	2189.5	2224.7	2300.5	2339.7	2516.4	2547.5	2076.4
60°	1308.5	1337.5	1562.4	1997.9	2355.6	2495.6	2569.4	2609.8	2834.7	2855.0	2260.3
62.5°	1199.1	1232.4	1452.2	1914.3	2439.2	2712.6	2865.3	2847.2	3080.9	3095.1	2373.2
65°	1023.2	1026.1	1228.7	1704.3	2353.0	2853.4	3073.2	2997.4	3198.6	3208.2	2364.4
67.5°	763.6	791.9	945.2	1339.6	1987.5	2733.1	3140.6	3001.4	3124.3	3097.7	2176.8
70°	491.9	513.4	640.7	928.9	1433.1	2280.8	2917.3	2795.6	2742.1	2683.0	1781.8
72.5°	227.0	254.7	380.6	530.7	849.9	1624.7	2368.1	2271.3	1973.7	1827.8	1132.6
75°	99.0	105.9	187.9	280.0	398.5	859.2	1561.4	1409.9	891.4	814.2	453.3
77.5°	60.4	64.9	98.5	150.1	156.5	327.4	841.1	615.1	275.5	243.0	123.0
80°	41.0	46.0	71.6	78.5	53.5	91.3	315.7	164.2	55.6	53.2	26.4
82.5°	20.0	25.3	53.0	43.9	23.2	29.3	91.8	35.1	16.2	15.2	9.3
85°	2.9	5.1	29.8	28.7	10.4	6.9	16.2	8.8	5.6	5.3	4.3
87.5°	0.0	0.0	10.1	4.5	1.1	1.1	1.9	1.9	2.1	1.9	2.1
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°	689.7	689.7	689.7	689.7	689.7	689.7	689.7	689.7	689.7	689.7	689.7
2.5°	695.0	696.3	691.3	684.1	676.3	668.6	657.7	647.9	642.0	645.5	637.0
5°	707.5	706.4	693.1	671.3	642.3	607.4	572.8	543.3	533.7	519.3	517.7
7.5°	724.8	721.9	693.6	643.6	578.1	512.6	448.8	406.4	382.2	361.7	362.3
10°	749.0	740.5	687.5	594.9	487.1	388.3	306.9	251.0	226.8	219.1	212.9
12.5°	774.0	757.5	670.5	529.2	379.3	265.4	186.6	152.5	137.6	132.8	132.3
15°	796.4	770.3	640.7	450.1	275.8	169.6	127.2	116.1	114.2	114.5	114.2
17.5°	818.5	780.4	599.4	366.3	187.4	121.6	109.4	106.7	107.5	108.6	108.3
20°	836.8	782.5	546.7	279.5	132.6	106.7	102.7	102.2	103.0	103.8	103.8
22.5°	856.8	784.1	484.2	193.5	108.3	99.3	97.2	97.2	98.2	99.3	99.5
25°	871.7	775.4	409.4	138.9	95.6	92.1	91.0	91.3	92.4	92.9	92.6
27.5°	874.1	750.6	330.1	106.5	86.8	83.3	82.2	83.3	82.0	82.8	82.2
30°	876.2	719.2	249.7	89.7	78.8	73.5	71.9	70.3	69.2	67.9	67.6
32.5°	882.9	682.2	182.3	80.7	71.3	65.5	61.8	57.2	53.8	52.7	52.4
35°	885.8	637.7	133.9	73.5	64.7	58.3	51.6	45.2	40.2	38.3	39.7
37.5°	897.0	594.6	103.8	68.1	58.8	50.8	42.3	34.3	29.5	28.5	29.0
40°	919.9	547.8	87.0	63.6	53.8	43.9	33.5	25.8	22.6	21.6	21.3
42.5°	956.6	501.2	77.5	59.4	48.7	37.0	26.4	20.2	17.6	16.8	16.8
45°	1001.3	456.5	70.8	54.8	43.4	29.8	20.8	16.2	14.6	14.1	14.1
47.5°	1060.2	417.4	65.2	50.3	37.5	23.7	16.8	14.1	13.0	13.3	13.6
50°	1119.8	388.3	59.1	45.2	30.9	19.4	14.4	12.5	12.2	12.5	12.5
52.5°	1164.8	371.3	50.8	38.3	24.2	16.2	12.8	11.7	11.4	10.9	10.9
55°	1225.5	367.6	40.5	31.1	19.2	13.6	11.4	10.6	9.8	9.3	9.0
57.5°	1303.4	371.8	31.1	24.2	14.9	11.2	10.1	8.8	7.7	6.7	6.7
60°	1351.9	362.3	24.2	18.6	10.9	9.0	7.7	6.4	5.1	4.3	4.0
62.5°	1336.5	321.8	19.2	13.8	7.7	6.7	5.1	4.3	2.9	2.1	1.9
65°	1256.9	259.8	15.4	9.6	5.6	4.0	2.7	2.7	1.3	0.3	0.0
67.5°	1100.1	192.4	12.2	6.4	3.2	1.9	1.3	0.8	0.0	0.0	0.0
70°	895.4	138.9	9.6	4.0	1.9	1.3	0.5	0.3	0.0	0.0	0.0
72.5°	568.5	79.6	7.5	2.4	1.3	0.5	0.0	0.0	0.0	0.0	0.0
75°	219.9	31.1	5.1	1.6	0.5	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	62.3	14.6	2.9	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	16.2	6.4	1.6	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	7.7	2.7	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	4.5	1.1	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.1	0.3	0.0	0.0	0.0	0.0	0.0	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)