

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: P450356

Luminaire Tested: **GALN-SA1A-827-U-T3-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P450356
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-827-U-T3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 2700K, 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: 2497 lumens
Efficiency: N/A
Efficacy: 75.7 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

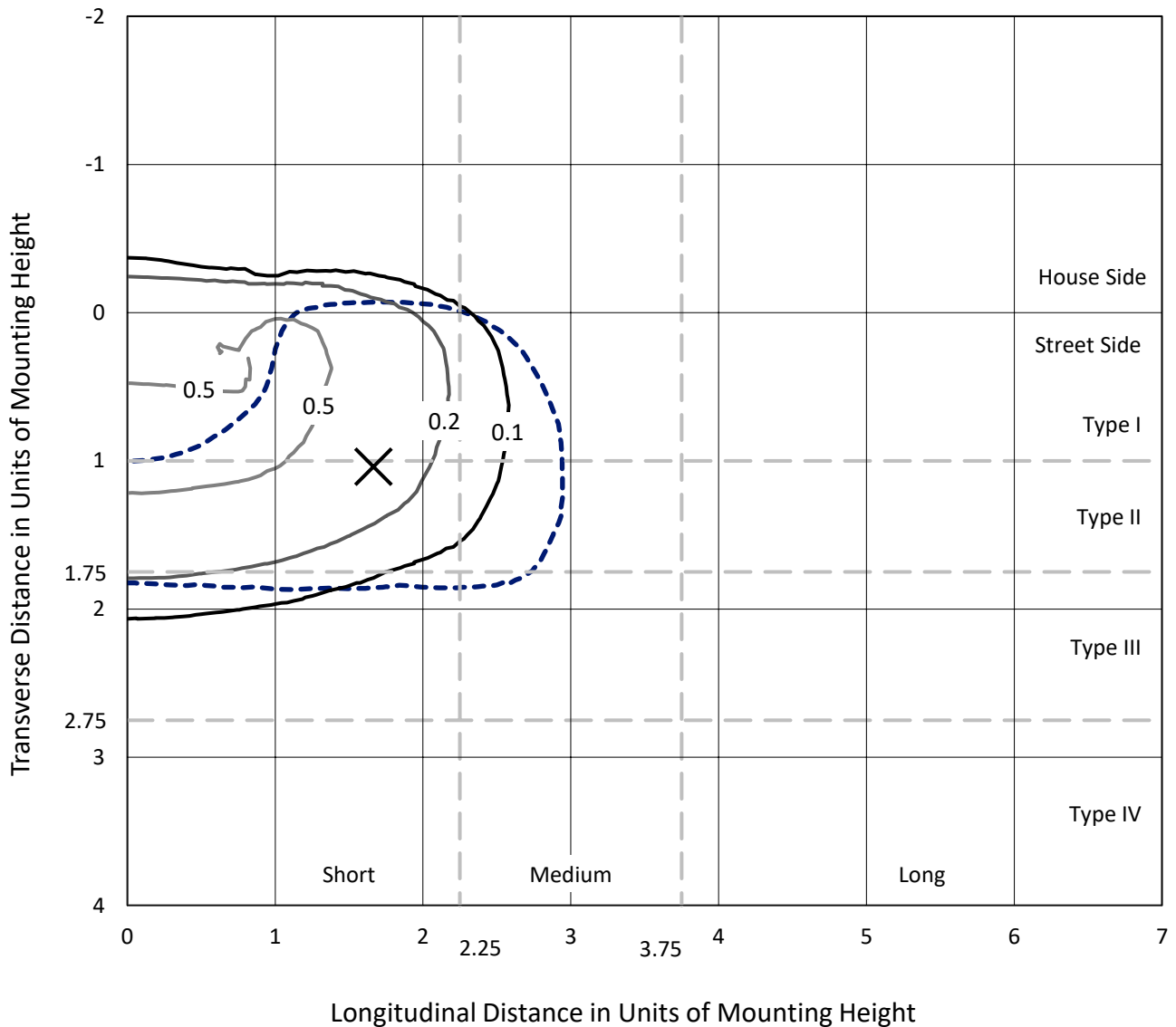
Input Watts (W): 33
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

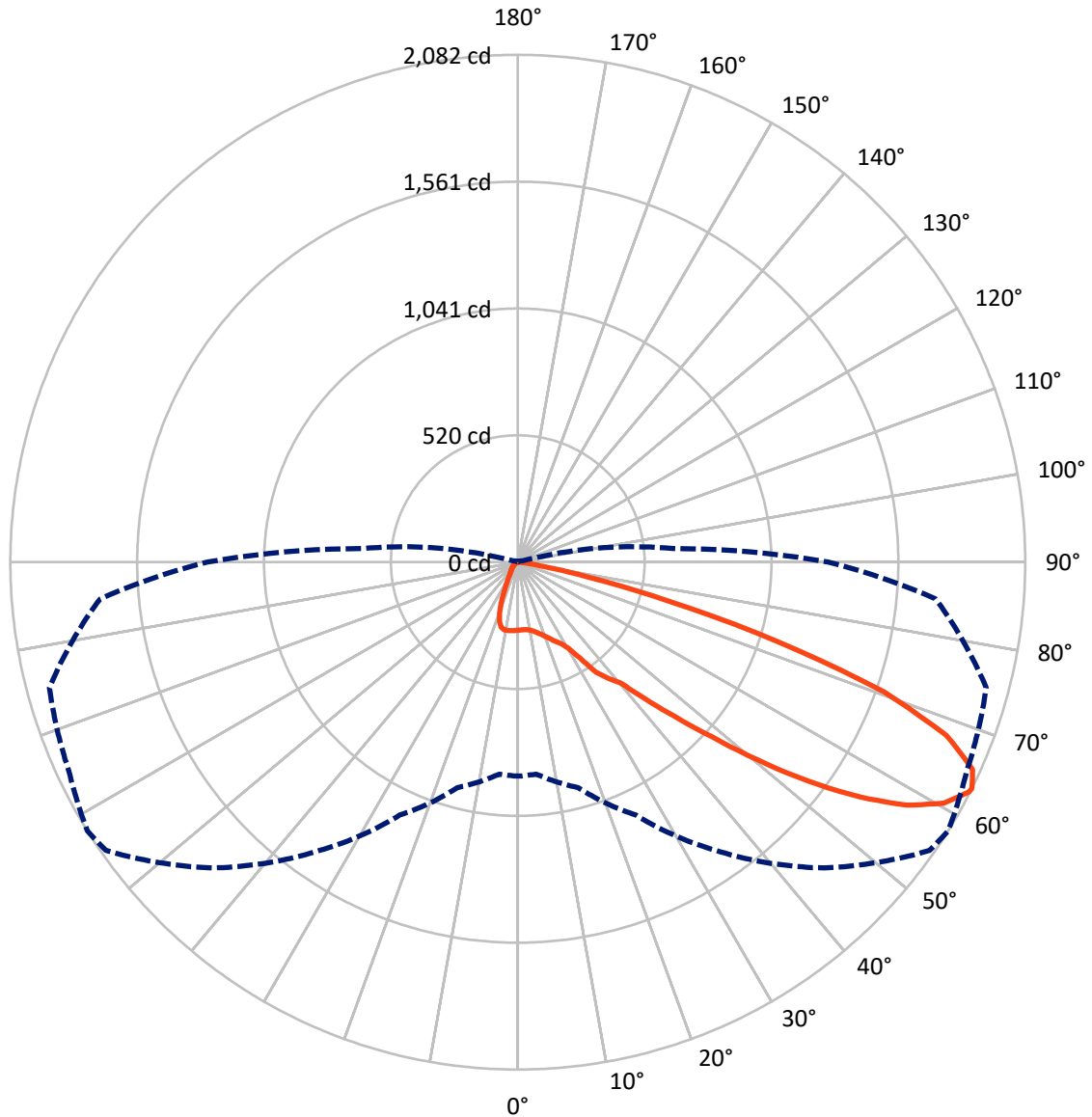
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.6 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	258.5	0.0	258.5
	% Fixture	10.4	0.0	10.4
Street Side	Lumens	2238.4	0.0	2238.4
	% Fixture	89.6	0.0	89.6
Total	Lumens	2497.0	0.0	2497.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	26.2	1.0
10°-20°	71.3	2.9
20°-30°	123.7	5.0
30°-40°	227.3	9.1
40°-50°	427.9	17.1
50°-60°	731.9	29.3
60°-70°	700.8	28.1
70°-80°	178.7	7.2
80°-90°	9.1	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°	2497.0	100.0
0°-180°	2497.0	100.0

Coefficient of Utilization



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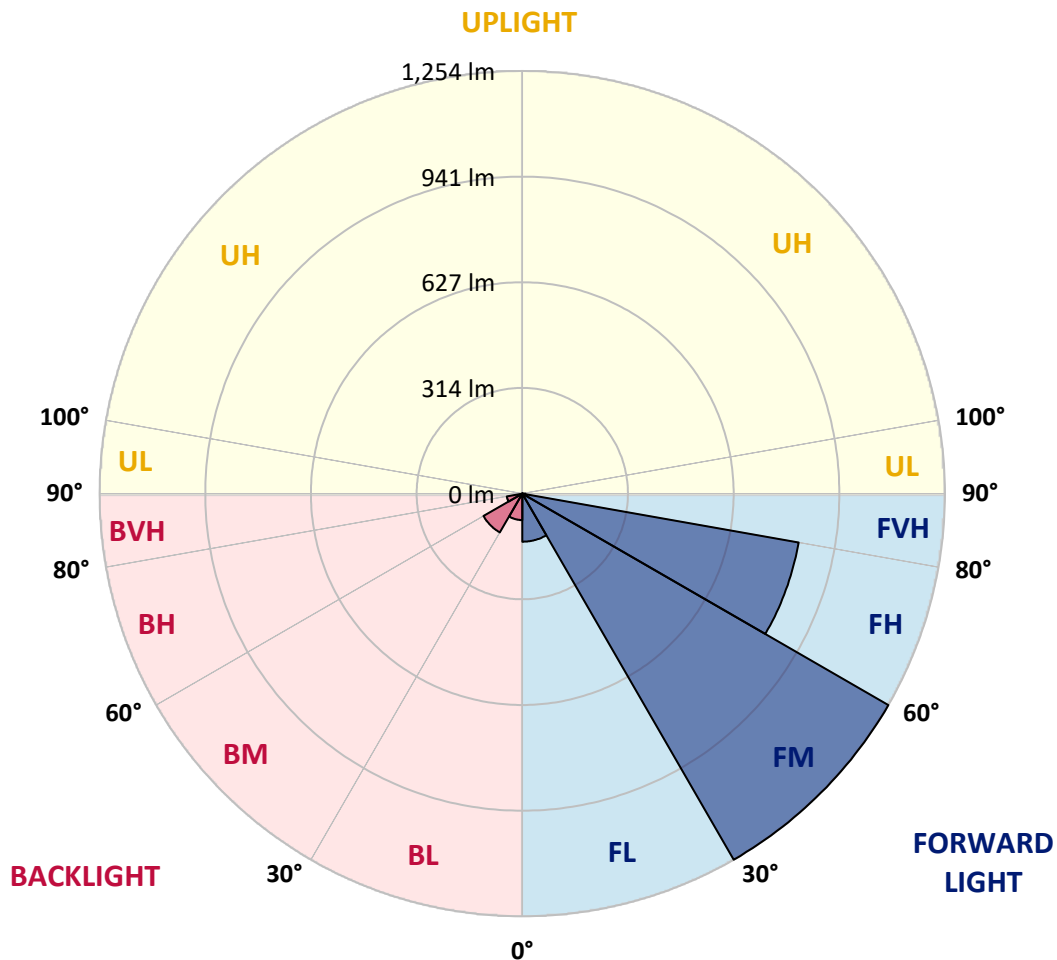
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	142.7	5.7			
FM (30°-60°)	1254.2	50.2			
FH (60°-80°)	832.7	33.3			G1/1800
FVH (80°-90°)	8.8	0.4			G0/10
BL (0°-30°)	78.4	3.1	B0/110		
BM (30°-60°)	133.0	5.3	B0/220		
BH (60°-80°)	46.8	1.9	B0/110		G0/110
BVH (80°-90°)	0.4	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°	279.5	279.5	279.5	279.5	279.5	279.5	279.5	279.5	279.5	279.5	279.5
2.5°	272.6	273.5	274.5	274.8	276.2	277.5	278.4	278.2	279.7	280.5	280.5
5°	261.7	261.7	264.1	266.4	270.1	273.9	277.5	278.2	281.1	283.7	284.6
7.5°	252.5	253.0	254.9	259.1	264.1	270.7	277.9	279.5	284.4	290.3	292.7
10°	248.2	248.5	251.0	255.3	261.7	270.7	280.7	283.9	291.4	300.6	304.0
12.5°	247.2	247.8	250.2	255.1	262.4	273.3	286.9	290.3	301.2	313.0	318.1
15°	248.9	249.3	251.7	257.0	265.1	278.0	295.2	299.9	312.8	326.5	333.1
17.5°	254.9	254.5	256.2	260.6	269.6	283.9	305.1	310.8	326.0	344.8	349.1
20°	280.5	278.0	276.5	272.8	276.4	292.1	317.1	325.4	344.2	363.4	366.4
22.5°	335.6	330.1	319.4	304.7	293.5	303.4	331.6	341.2	365.5	384.3	384.3
25°	405.7	398.7	388.0	356.1	328.4	322.0	348.0	360.0	388.6	407.6	401.4
27.5°	493.5	488.0	467.2	429.9	387.6	354.6	367.0	378.1	409.1	432.0	419.0
30°	564.9	562.3	545.2	511.9	465.3	417.0	402.3	409.6	436.3	462.8	449.5
32.5°	625.3	625.3	607.8	576.8	533.2	490.3	462.3	467.5	493.1	523.8	498.9
35°	691.6	689.4	675.3	645.8	596.9	559.1	547.6	554.8	577.9	600.6	539.5
37.5°	761.4	760.6	746.0	717.4	677.5	630.0	603.1	605.0	616.8	630.7	587.1
40°	837.1	838.3	819.1	801.4	763.8	715.1	663.6	651.8	662.9	702.2	674.9
42.5°	926.6	924.0	915.7	891.7	861.4	832.3	770.4	766.1	775.9	818.0	788.5
45°	1030.6	1034.3	1020.1	1006.7	986.4	962.2	910.5	902.9	913.7	979.1	937.2
47.5°	1134.7	1131.2	1140.4	1137.9	1148.8	1130.8	1085.1	1069.7	1095.4	1157.5	1095.8
50°	1214.1	1218.0	1237.2	1265.2	1312.0	1322.2	1278.4	1273.1	1284.6	1324.4	1237.8
52.5°	1265.6	1278.7	1308.8	1380.8	1465.2	1530.8	1497.6	1494.7	1490.0	1500.8	1373.5
55°	1299.2	1312.6	1351.9	1457.9	1603.2	1709.8	1711.5	1699.5	1668.5	1660.7	1500.4
57.5°	1278.6	1281.2	1337.2	1479.0	1679.7	1837.5	1892.7	1880.7	1823.4	1794.2	1612.4
60°	1149.2	1154.7	1232.7	1399.2	1646.5	1879.2	2012.9	2007.4	1944.6	1911.7	1699.7
62.5°	920.0	935.8	1016.1	1201.9	1491.7	1808.9	2061.6	2077.0	2028.1	1982.8	1727.1
63°	877.9	872.9	957.6	1144.3	1450.8	1774.1	2062.3	2081.9	2031.9	1989.6	1719.6
65°	649.9	665.1	720.2	902.4	1207.3	1612.2	2015.9	2050.5	2017.9	1959.7	1636.3
67.5°	364.9	364.1	425.1	590.5	845.0	1264.6	1822.8	1895.9	1889.2	1758.5	1356.4
70°	178.6	181.4	206.4	306.1	490.1	872.5	1514.7	1593.6	1596.1	1381.2	937.9
72.5°	80.8	82.2	100.0	149.1	251.9	464.5	1043.7	1119.1	1105.2	880.2	517.9
75°	42.7	45.5	55.1	75.0	121.4	191.6	567.7	640.7	611.5	402.1	190.6
77.5°	31.6	32.5	37.4	47.8	65.0	74.6	245.0	291.4	273.0	145.5	63.2
80°	23.1	23.9	27.8	33.8	41.0	38.0	92.3	105.8	94.9	49.4	19.4
82.5°	14.1	14.3	20.3	25.2	25.8	21.2	30.5	32.7	34.2	27.8	10.5
85°	5.1	6.4	13.7	18.2	15.2	10.7	12.8	14.1	15.4	17.7	6.2
87.5°	0.6	0.8	6.6	8.8	4.3	3.9	4.7	5.3	5.6	6.6	3.0
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°	279.5	279.5	279.5	279.5	279.5	279.5	279.5	279.5	279.5	279.5	279.5
2.5°	281.2	282.0	281.4	280.5	280.3	279.7	278.6	278.6	278.6	279.0	278.6
5°	285.4	285.9	284.6	282.7	280.7	278.0	275.2	273.5	273.3	273.0	272.0
7.5°	293.3	294.0	291.0	286.5	280.9	274.5	268.5	262.8	260.2	258.1	258.1
10°	304.7	305.5	299.5	291.4	280.1	267.1	252.9	239.9	229.7	225.0	223.9
12.5°	318.5	318.8	308.9	294.8	276.2	251.2	220.7	192.3	172.6	163.6	162.6
15°	333.5	330.9	317.7	296.1	264.9	218.3	165.6	130.8	110.4	104.3	106.6
17.5°	348.7	343.8	324.5	294.0	239.5	165.6	111.3	89.3	82.9	81.2	81.2
20°	363.0	356.3	329.4	285.0	195.5	114.1	82.5	77.3	76.1	75.0	75.2
22.5°	377.3	367.0	333.7	264.9	145.7	81.6	73.9	72.2	70.7	69.2	69.0
25°	391.2	376.9	335.4	227.7	99.3	70.1	67.5	65.2	62.2	60.5	60.2
27.5°	405.7	389.0	334.3	180.7	72.4	62.8	60.2	57.0	53.4	50.4	50.4
30°	433.5	411.9	330.3	129.9	60.9	55.3	51.9	46.8	42.9	39.9	39.7
32.5°	471.5	441.8	316.8	91.4	54.1	48.7	43.6	38.0	33.8	31.6	31.6
35°	505.3	471.9	291.4	67.3	48.7	42.3	36.1	30.6	27.4	25.9	25.4
37.5°	556.8	515.9	256.4	54.7	43.4	36.7	30.3	25.2	22.6	21.4	21.4
40°	634.1	569.6	213.6	47.9	38.4	31.2	25.2	21.2	19.2	17.9	17.9
42.5°	730.0	635.4	170.1	43.1	33.7	26.9	21.1	18.0	16.2	15.2	15.0
45°	850.7	704.8	131.0	38.5	29.9	22.9	17.9	15.2	13.3	12.8	13.0
47.5°	976.6	765.9	101.5	34.6	25.9	19.4	15.2	13.2	11.8	11.1	11.1
50°	1084.2	808.0	77.1	30.1	22.9	16.4	13.3	11.8	10.7	10.3	10.2
52.5°	1174.0	820.2	59.0	26.1	20.1	14.1	11.8	10.7	9.8	9.2	9.2
55°	1250.5	809.5	46.2	22.0	16.9	12.2	10.5	9.6	8.5	7.9	7.7
57.5°	1295.3	775.1	35.3	18.2	13.7	10.2	9.2	8.1	6.8	5.8	5.8
60°	1317.8	725.1	27.1	15.0	10.5	8.1	7.5	6.0	4.7	3.9	3.8
62.5°	1290.8	658.7	20.5	11.8	7.9	6.0	5.1	4.3	3.0	2.3	2.3
63°	1274.0	639.6	19.7	11.3	7.3	5.6	4.7	3.9	2.6	2.1	1.9
65°	1161.4	555.9	16.2	9.0	5.8	3.9	3.2	2.8	1.9	0.9	0.8
67.5°	922.3	425.2	12.8	6.8	4.1	2.8	1.9	1.7	0.6	0.0	0.0
70°	623.6	274.7	10.0	4.9	2.8	1.7	0.9	0.8	0.2	0.0	0.0
72.5°	325.2	140.8	7.7	3.6	1.7	1.1	0.6	0.2	0.0	0.0	0.0
75°	115.1	47.9	5.6	2.3	1.1	0.6	0.2	0.0	0.0	0.0	0.0
77.5°	34.8	17.9	3.6	1.7	0.8	0.4	0.0	0.0	0.0	0.0	0.0
80°	12.2	6.6	2.1	1.1	0.6	0.2	0.0	0.0	0.0	0.0	0.0
82.5°	6.0	3.2	1.3	0.9	0.6	0.2	0.0	0.0	0.0	0.0	0.0
85°	3.4	2.1	1.1	0.9	0.6	0.4	0.0	0.0	0.0	0.0	0.0
87.5°	2.4	1.5	1.1	0.9	0.8	0.4	0.2	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)