

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: P450619

Luminaire Tested: **GALN-SA1B-830-U-T3R-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P450619  
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-830-U-T3R-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 80 CRI, 3000K, 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: 3582 lumens  
Efficiency: N/A  
Efficacy: 81.4 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

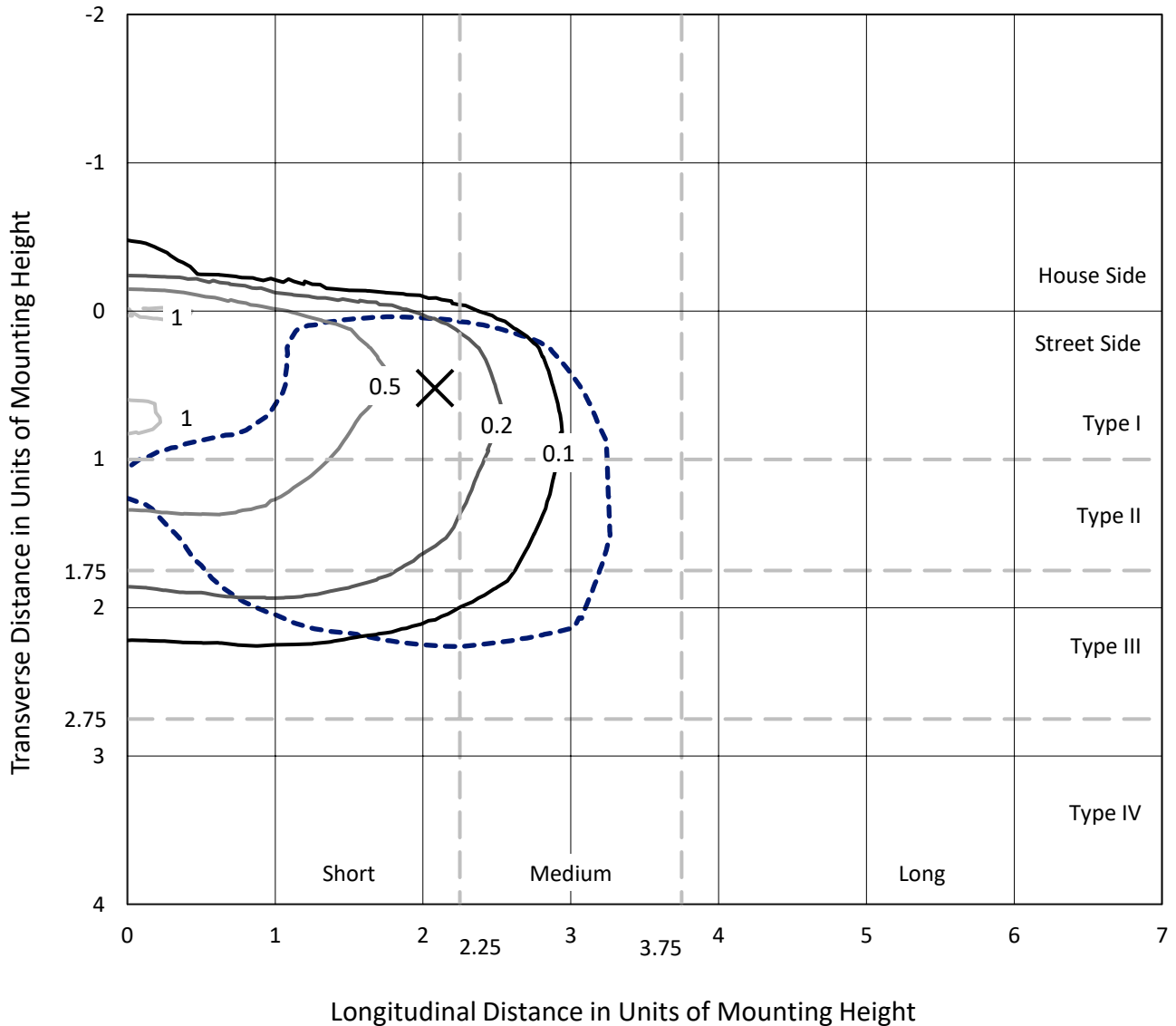
Input Watts (W): 44  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

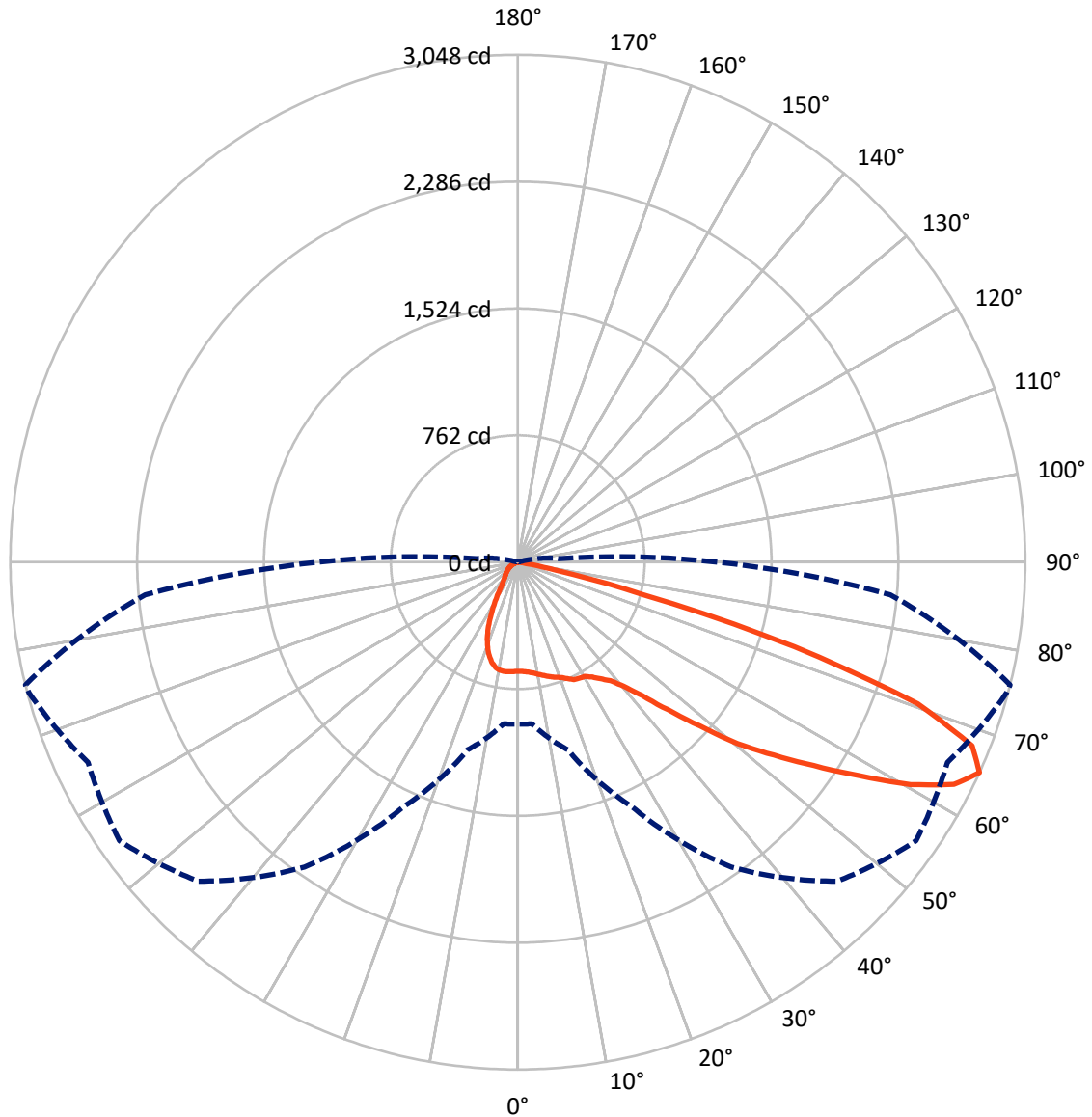
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.1 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
<b>House Side</b>	Lumens	258.7	0.0	258.7
	% Fixture	7.2	0.0	7.2
<b>Street Side</b>	Lumens	3323.3	0.0	3323.3
	% Fixture	92.8	0.0	92.8
<b>Total</b>	Lumens	3582.0	0.0	3582.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	54.0	1.5
10°-20°	120.2	3.4
20°-30°	193.7	5.4
30°-40°	336.7	9.4
40°-50°	556.4	15.5
50°-60°	859.6	24.0
60°-70°	1049.7	29.3
70°-80°	398.4	11.1
80°-90°	13.3	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°	3582.0	100.0
0°-180°	3582.0	100.0

**Coefficient of Utilization**



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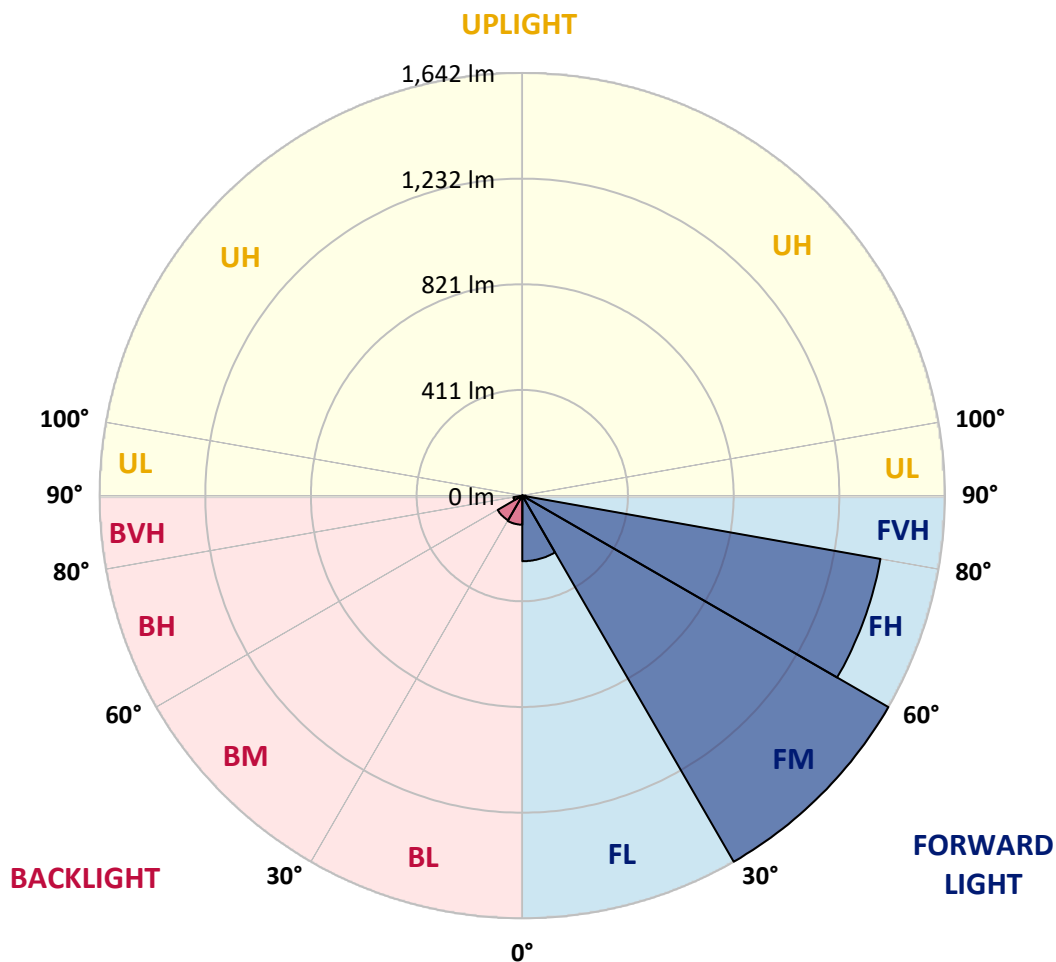
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	254.8	7.1			
FM	(30°-60°)	1642.4	45.9			
FH	(60°-80°)	1413.0	39.4			G1/1800
FVH	(80°-90°)	13.1	0.4			G1/100
BL	(0°-30°)	113.0	3.2	B1/500		
BM	(30°-60°)	110.4	3.1	B0/220		
BH	(60°-80°)	35.1	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°	655.3	655.3	655.3	655.3	655.3	655.3	655.3	655.3	655.3	655.3	655.3
2.5°	626.2	626.4	627.9	631.7	637.6	642.4	646.4	653.0	657.5	658.0	659.6
5°	582.9	579.9	582.9	592.8	601.6	615.1	631.5	647.9	662.6	663.6	670.7
7.5°	534.4	536.9	541.7	551.8	568.5	589.0	612.8	642.1	669.9	672.5	686.4
10°	485.1	490.6	498.5	513.9	537.2	563.7	596.1	638.1	681.6	685.1	709.1
12.5°	439.5	442.1	451.7	472.4	501.2	538.7	583.4	635.8	694.5	698.8	733.4
15°	404.6	407.9	416.3	435.0	467.1	515.2	573.1	635.0	707.1	713.2	757.7
17.5°	398.1	400.1	403.6	416.3	444.3	496.4	563.7	634.8	719.2	726.6	780.2
20°	425.1	423.4	419.8	418.5	434.0	482.0	556.9	636.8	730.9	739.2	804.0
22.5°	492.9	495.2	474.4	449.9	444.8	479.7	555.9	646.4	749.3	759.2	830.5
25°	636.8	619.4	587.0	528.3	484.0	493.7	567.3	669.2	770.8	781.7	854.5
27.5°	795.9	790.6	740.2	643.6	561.2	523.0	587.5	686.6	777.9	789.0	868.2
30°	952.2	958.5	900.8	794.1	673.2	577.4	606.5	693.2	784.2	795.9	885.7
32.5°	1097.1	1104.7	1054.1	948.4	805.2	671.4	639.1	718.7	810.8	822.7	914.7
35°	1211.1	1212.1	1174.0	1089.7	949.4	785.8	709.6	763.5	846.7	860.6	945.6
37.5°	1315.8	1314.3	1269.6	1197.0	1069.5	899.3	798.4	815.1	887.7	902.1	990.1
40°	1393.5	1394.5	1380.1	1311.8	1181.5	1004.3	868.7	863.4	956.5	979.0	1054.8
42.5°	1445.3	1454.7	1461.8	1427.1	1322.4	1133.5	976.7	966.8	1075.8	1094.5	1146.4
45°	1487.3	1504.0	1539.4	1537.6	1457.7	1292.1	1124.9	1104.7	1245.0	1265.0	1263.0
47.5°	1517.9	1534.8	1593.5	1628.9	1584.9	1445.8	1311.3	1293.8	1447.1	1468.8	1391.7
50°	1533.6	1553.8	1628.7	1697.2	1684.3	1594.0	1523.7	1524.7	1691.1	1712.1	1540.9
52.5°	1496.9	1523.2	1647.4	1770.8	1795.8	1735.9	1722.8	1756.1	1908.4	1926.3	1675.7
55°	1379.8	1412.9	1621.8	1833.5	1925.1	1903.3	1948.8	1999.7	2145.9	2157.5	1814.0
57.5°	1305.7	1340.9	1546.5	1886.9	2080.3	2113.7	2185.8	2223.0	2390.9	2420.5	1972.9
60°	1243.3	1270.8	1484.5	1898.3	2238.2	2371.2	2441.2	2479.7	2693.4	2712.6	2147.6
62.5°	1139.3	1170.9	1379.8	1818.9	2317.6	2577.3	2722.5	2705.3	2927.3	2940.7	2254.9
65°	972.1	974.9	1167.4	1619.3	2235.6	2711.1	2920.0	2847.9	3039.1	3048.2	2246.5
67.5°	725.6	752.4	898.0	1272.8	1888.4	2596.8	2984.0	2851.7	2968.5	2943.2	2068.2
70°	467.4	487.8	608.7	882.6	1361.6	2167.1	2771.8	2656.2	2605.4	2549.2	1692.9
72.5°	215.7	242.0	361.6	504.3	807.5	1543.7	2250.0	2158.0	1875.2	1736.7	1076.1
75°	94.1	100.7	178.5	266.1	378.6	816.4	1483.5	1339.6	847.0	773.6	430.7
77.5°	57.4	61.7	93.6	142.6	148.7	311.1	799.2	584.5	261.8	230.9	116.8
80°	38.9	43.8	68.0	74.6	50.8	86.7	299.9	156.0	52.9	50.6	25.0
82.5°	19.0	24.0	50.3	41.7	22.0	27.8	87.3	33.4	15.4	14.4	8.9
85°	2.8	4.8	28.3	27.3	9.9	6.6	15.4	8.3	5.3	5.1	4.0
87.5°	0.0	0.0	9.6	4.3	1.0	1.0	1.8	1.8	2.0	1.8	2.0
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°	655.3	655.3	655.3	655.3	655.3	655.3	655.3	655.3	655.3	655.3	655.3
2.5°	660.3	661.6	656.8	650.0	642.6	635.3	624.9	615.6	610.0	613.3	605.2
5°	672.2	671.2	658.5	637.8	610.2	577.1	544.2	516.2	507.1	493.4	491.9
7.5°	688.6	685.9	659.1	611.5	549.3	487.1	426.4	386.2	363.2	343.7	344.2
10°	711.7	703.6	653.2	565.2	462.8	369.0	291.6	238.5	215.5	208.1	202.3
12.5°	735.4	719.8	637.1	502.8	360.4	252.1	177.3	144.9	130.7	126.2	125.7
15°	756.7	731.9	608.7	427.7	262.0	161.1	120.9	110.3	108.5	108.7	108.5
17.5°	777.7	741.5	569.5	348.0	178.0	115.6	103.9	101.4	102.2	103.2	102.9
20°	795.1	743.5	519.5	265.5	125.9	101.4	97.6	97.1	97.9	98.6	98.6
22.5°	814.1	745.0	460.0	183.9	102.9	94.3	92.3	92.3	93.3	94.3	94.6
25°	828.2	736.7	389.0	132.0	90.8	87.5	86.5	86.7	87.8	88.3	88.0
27.5°	830.5	713.2	313.6	101.2	82.4	79.2	78.1	79.2	77.9	78.7	78.1
30°	832.5	683.3	237.2	85.2	74.9	69.8	68.3	66.8	65.8	64.5	64.2
32.5°	838.9	648.2	173.2	76.6	67.8	62.2	58.7	54.4	51.1	50.1	49.8
35°	841.6	605.9	127.2	69.8	61.5	55.4	49.1	43.0	38.2	36.4	37.7
37.5°	852.3	565.0	98.6	64.7	55.9	48.3	40.2	32.6	28.1	27.1	27.6
40°	874.0	520.5	82.7	60.4	51.1	41.7	31.9	24.5	21.5	20.5	20.2
42.5°	908.9	476.2	73.6	56.4	46.3	35.2	25.0	19.2	16.7	15.9	15.9
45°	951.4	433.7	67.3	52.1	41.2	28.3	19.7	15.4	13.9	13.4	13.4
47.5°	1007.3	396.5	62.0	47.8	35.7	22.5	15.9	13.4	12.4	12.6	12.9
50°	1063.9	369.0	56.1	43.0	29.3	18.5	13.7	11.9	11.6	11.9	11.9
52.5°	1106.7	352.8	48.3	36.4	23.0	15.4	12.1	11.1	10.9	10.4	10.4
55°	1164.3	349.3	38.4	29.6	18.2	12.9	10.9	10.1	9.4	8.9	8.6
57.5°	1238.4	353.3	29.6	23.0	14.2	10.6	9.6	8.3	7.3	6.3	6.3
60°	1284.5	344.2	23.0	17.7	10.4	8.6	7.3	6.1	4.8	4.0	3.8
62.5°	1269.8	305.8	18.2	13.2	7.3	6.3	4.8	4.0	2.8	2.0	1.8
65°	1194.2	246.8	14.7	9.1	5.3	3.8	2.5	2.5	1.3	0.3	0.0
67.5°	1045.2	182.8	11.6	6.1	3.0	1.8	1.3	0.8	0.0	0.0	0.0
70°	850.8	132.0	9.1	3.8	1.8	1.3	0.5	0.3	0.0	0.0	0.0
72.5°	540.2	75.6	7.1	2.3	1.3	0.5	0.0	0.0	0.0	0.0	0.0
75°	208.9	29.6	4.8	1.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	59.2	13.9	2.8	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	15.4	6.1	1.5	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	7.3	2.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	4.3	1.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.0	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)