

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: P594137

Luminaire Tested: **ISC-PA1C-735-U-T2R-HSS**

Issue Date: 3/22/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P594137  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2201-510-7)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/22/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: ISC-PA1C-735-U-T2R-HSS  
Description: IMPACT ELITE LED CYLINDER LUMINAIRE  
(1) 70 CRI, 3500K, 615mA LIGHT ENGINE WITH 24 LEDS AND TYPE II ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5387 lumens  
Efficiency: N/A  
Efficacy: 110.2 lumens/watt  
Luminous Opening: Rectangular (W 0.75' x L: 0.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B0 - U0 - G1

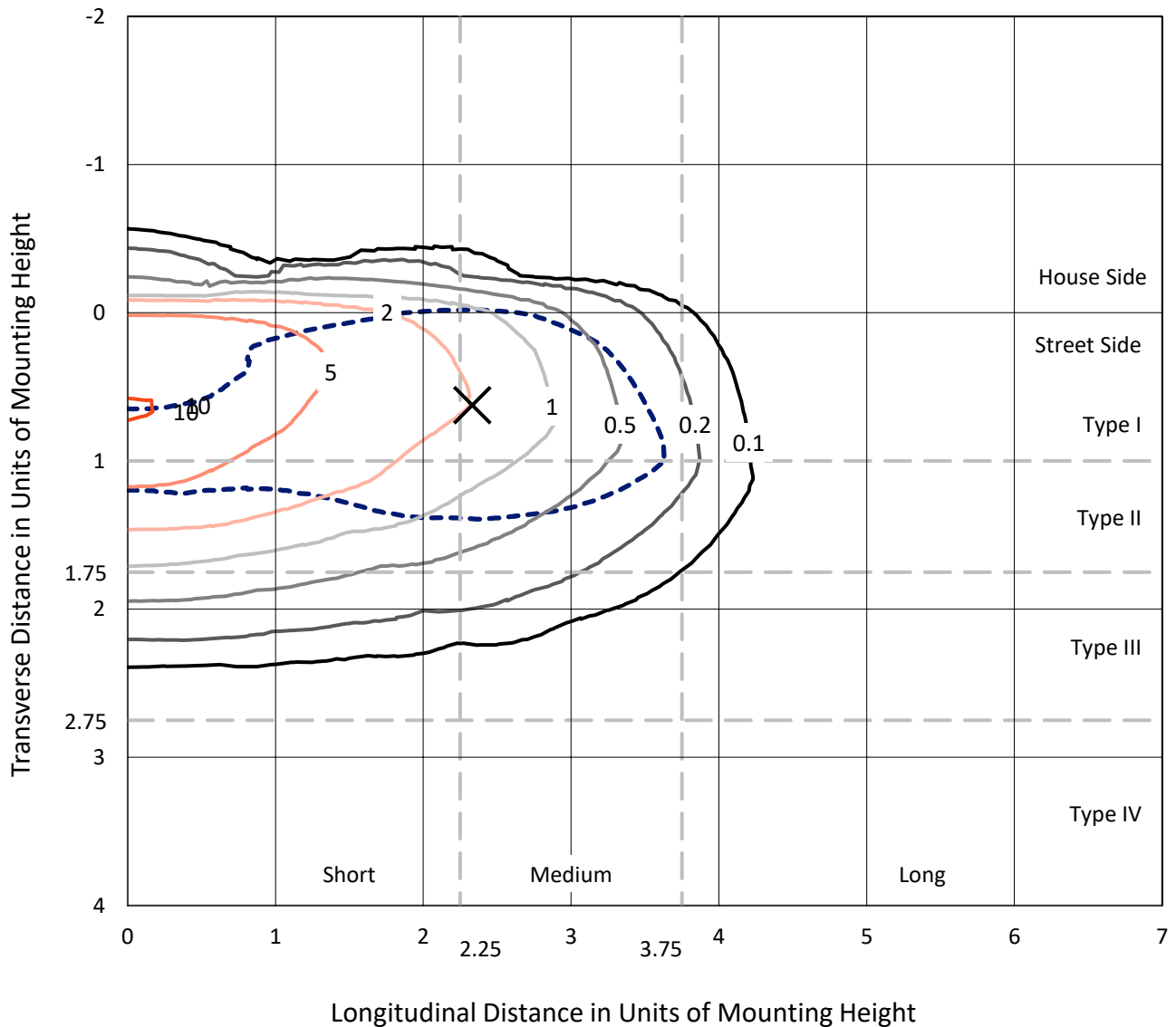
Input Watts (W): 48.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

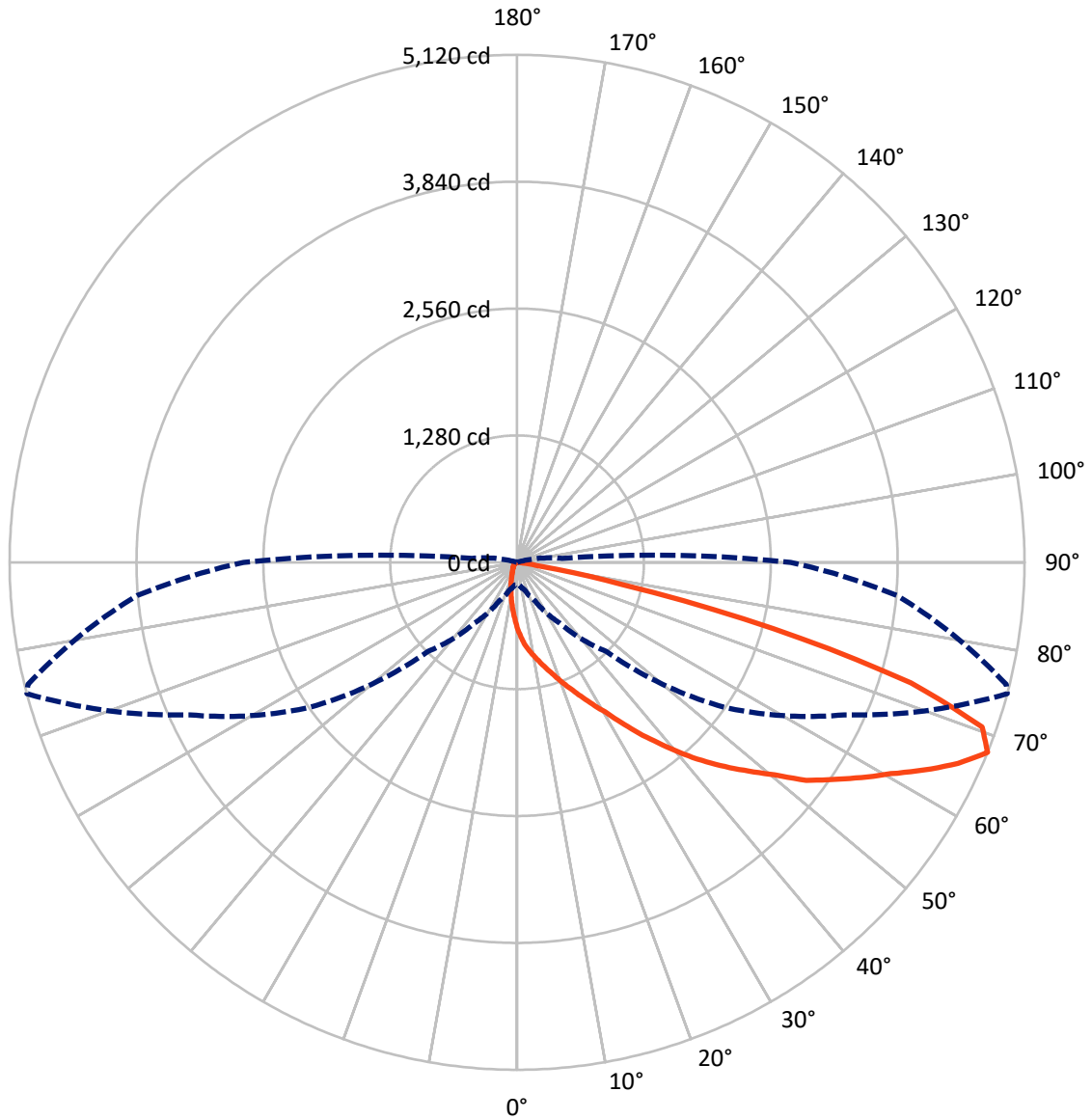
✕ Max cd  
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 10.6 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	271.6	0.0	271.6
	% Fixture	5.0	0.0	5.0
<b>Street Side</b>	Lumens	5115.4	0.0	5115.4
	% Fixture	95.0	0.0	95.0
<b>Total</b>	Lumens	5387.0	0.0	5387.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	60.4	1.1
10°-20°	194.9	3.6
20°-30°	391.7	7.3
30°-40°	740.9	13.8
40°-50°	1108.4	20.6
50°-60°	1279.7	23.8
60°-70°	1134.3	21.1
70°-80°	458.5	8.5
80°-90°	18.3	0.3
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°	5387.0	100.0
0°-180°	5387.0	100.0

**Coefficient of Utilization**



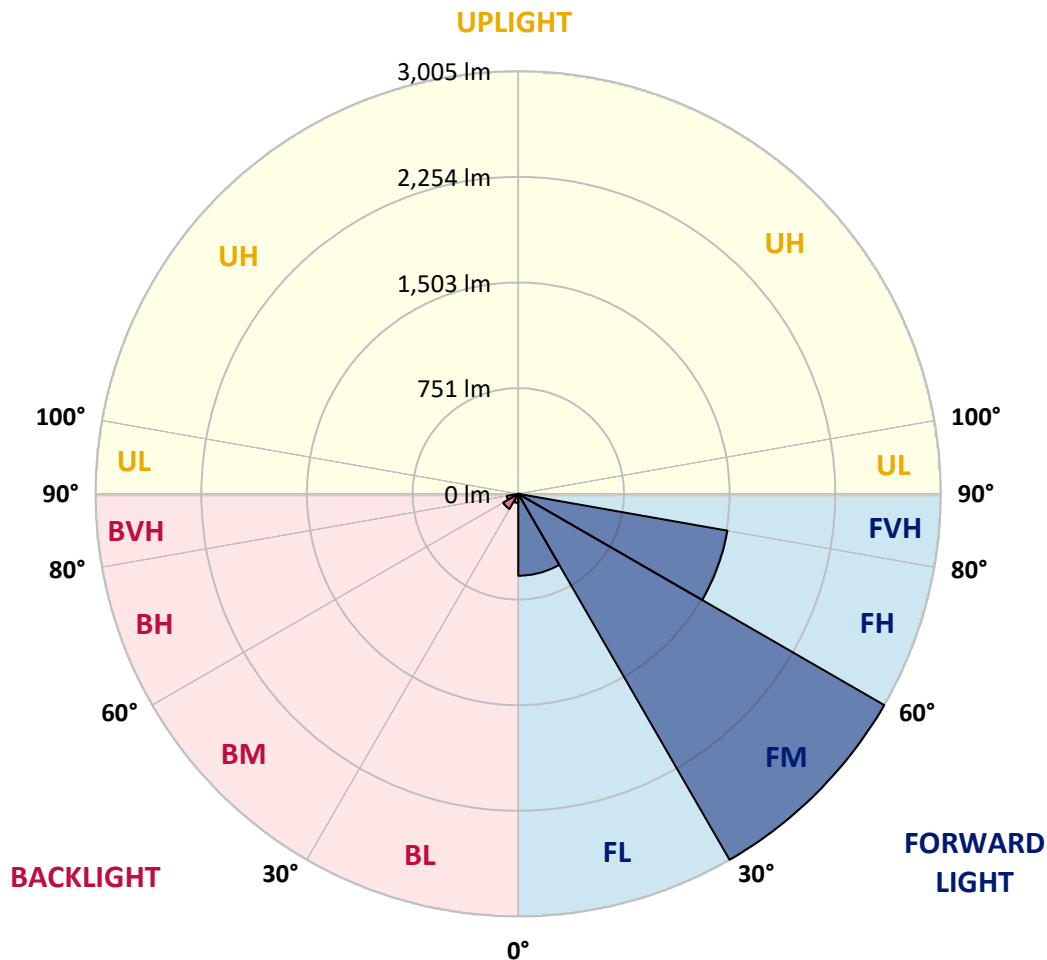
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	582.4	10.8			
FM (30°-60°)	3005.1	55.8			
FH (60°-80°)	1510.5	28.0			G1/1800
FVH (80°-90°)	17.5	0.3			G1/100
BL (0°-30°)	64.6	1.2	B0/110		
BM (30°-60°)	123.9	2.3	B0/220		
BH (60°-80°)	82.3	1.5	B0/110		G0/110
BVH (80°-90°)	0.8	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 Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	669.5	669.5	669.5	669.5	669.5	669.5	669.5	669.5	669.5	669.5	669.5
2.5°	931.4	934.7	928.2	913.7	900.7	870.0	845.7	802.1	755.2	755.2	698.6
5°	1041.4	1038.2	1034.9	1023.6	1013.9	988.0	955.7	908.8	836.0	829.6	735.8
7.5°	1094.8	1091.5	1085.1	1080.2	1080.2	1062.4	1031.7	983.2	902.3	895.9	769.7
10°	1157.8	1151.4	1151.4	1138.4	1135.2	1114.2	1098.0	1056.0	967.0	958.9	808.5
12.5°	1232.2	1225.8	1227.4	1216.1	1211.2	1188.6	1165.9	1125.5	1036.6	1028.5	853.8
15°	1274.3	1271.0	1280.7	1282.4	1285.6	1266.2	1245.2	1203.1	1114.2	1102.9	907.2
17.5°	1298.5	1298.5	1309.8	1330.9	1355.1	1343.8	1327.6	1293.7	1193.4	1186.9	963.8
20°	1345.4	1340.6	1360.0	1379.4	1410.1	1419.8	1415.0	1389.1	1288.8	1269.4	1025.2
22.5°	1423.0	1416.6	1434.4	1458.6	1495.8	1499.0	1502.3	1489.3	1385.8	1366.4	1089.9
25°	1605.8	1589.6	1573.4	1570.2	1584.8	1597.7	1588.0	1597.7	1495.8	1478.0	1159.5
27.5°	1961.5	1934.0	1856.4	1770.7	1710.9	1722.2	1691.5	1709.3	1621.9	1599.3	1224.1
30°	2302.7	2275.3	2212.2	2060.2	1922.7	1861.3	1816.0	1809.5	1751.3	1725.4	1298.5
32.5°	2540.5	2522.7	2480.6	2378.7	2207.3	2050.5	1963.2	1932.4	1924.3	1883.9	1393.9
35°	2702.2	2686.0	2656.9	2574.4	2448.3	2273.6	2123.2	2055.3	2116.8	2068.3	1502.3
37.5°	2799.2	2787.9	2755.5	2698.9	2631.0	2516.2	2322.1	2213.8	2310.8	2265.5	1641.4
40°	2870.3	2841.2	2818.6	2774.9	2752.3	2715.1	2548.5	2378.7	2521.0	2474.2	1778.8
42.5°	2876.8	2863.9	2846.1	2820.2	2823.4	2847.7	2789.5	2569.6	2732.9	2689.2	1924.3
45°	2875.2	2862.3	2849.3	2823.4	2839.6	2930.2	2983.5	2770.1	2939.9	2894.6	2078.0
47.5°	2828.3	2818.6	2821.8	2821.8	2842.9	2965.8	3133.9	2973.8	3146.9	3103.2	2263.9
50°	2663.4	2673.1	2737.7	2771.7	2808.9	2967.4	3239.0	3187.3	3370.0	3339.3	2443.4
52.5°	2141.0	2196.0	2458.0	2637.5	2745.8	2935.0	3307.0	3412.1	3653.0	3606.1	2647.2
55°	1636.5	1639.7	1892.0	2309.2	2621.3	2876.8	3345.8	3564.1	3868.1	3842.2	2826.7
57.5°	1327.6	1326.0	1450.5	1825.7	2297.9	2784.6	3355.5	3675.7	4096.1	4047.6	3033.7
60°	1085.1	1078.6	1153.0	1384.2	1877.4	2567.9	3319.9	3766.2	4330.6	4312.8	3250.4
62.5°	784.3	790.8	889.4	1068.9	1447.3	2168.5	3243.9	3793.7	4613.6	4595.8	3492.9
65°	451.2	470.6	578.9	769.7	1109.3	1696.3	3027.2	3772.7	4890.1	4888.5	3717.7
67.5°	226.4	228.0	286.2	430.1	745.5	1269.4	2548.5	3640.1	5119.7	5084.1	3847.1
70°	145.5	148.8	168.2	221.5	412.4	879.7	1947.0	3264.9	4975.8	4962.9	3657.9
72.5°	111.6	114.8	131.0	145.5	215.1	499.7	1317.9	2537.2	4154.3	4118.7	2852.6
75°	87.3	88.9	105.1	118.0	143.9	234.5	661.4	1581.5	2676.3	2584.1	1623.6
77.5°	69.5	71.2	79.2	93.8	110.0	131.0	195.7	711.5	1088.3	971.9	527.2
80°	45.3	46.9	59.8	72.8	93.8	85.7	76.0	205.4	232.9	210.2	93.8
82.5°	25.9	27.5	40.4	58.2	71.2	48.5	43.7	59.8	55.0	53.4	29.1
85°	8.1	8.1	27.5	40.4	32.3	14.6	27.5	21.0	17.8	16.2	9.7
87.5°	1.6	1.6	12.9	14.6	4.9	1.6	3.2	4.9	6.5	8.1	4.9
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°	669.5	669.5	669.5	669.5	669.5	669.5	669.5	669.5	669.5	669.5	669.5
2.5°	671.1	638.8	578.9	527.2	477.0	433.4	402.7	375.2	355.8	350.9	342.8
5°	675.9	612.9	498.1	401.0	317.0	249.0	210.2	184.3	171.4	163.3	163.3
7.5°	680.8	587.0	422.1	292.7	200.5	152.0	127.8	116.4	111.6	110.0	108.3
10°	690.5	567.6	357.4	210.2	137.5	114.8	105.1	100.3	97.0	95.4	95.4
12.5°	706.7	551.4	297.5	155.2	113.2	101.9	95.4	88.9	85.7	84.1	84.1
15°	727.7	540.1	245.8	124.5	103.5	92.2	84.1	77.6	72.8	71.2	71.2
17.5°	756.8	532.0	202.1	110.0	95.4	82.5	72.8	66.3	61.4	59.8	59.8
20°	785.9	532.0	166.6	101.9	87.3	72.8	63.1	55.0	50.1	48.5	48.5
22.5°	824.7	530.4	139.1	93.8	77.6	63.1	53.4	43.7	40.4	38.8	38.8
25°	857.1	530.4	119.7	85.7	67.9	55.0	43.7	35.6	32.3	30.7	30.7
27.5°	895.9	525.6	101.9	76.0	58.2	45.3	35.6	29.1	25.9	24.3	24.3
30°	929.8	519.1	90.6	67.9	50.1	37.2	29.1	22.6	21.0	21.0	21.0
32.5°	986.4	514.2	80.9	58.2	42.0	30.7	22.6	17.8	16.2	16.2	16.2
35°	1054.3	514.2	74.4	50.1	35.6	25.9	17.8	14.6	12.9	12.9	12.9
37.5°	1143.3	519.1	66.3	43.7	29.1	21.0	14.6	11.3	9.7	9.7	9.7
40°	1237.1	530.4	59.8	38.8	25.9	16.2	11.3	8.1	6.5	8.1	8.1
42.5°	1348.7	541.7	53.4	34.0	21.0	12.9	8.1	4.9	3.2	4.9	4.9
45°	1458.6	553.0	50.1	29.1	17.8	9.7	4.9	3.2	1.6	3.2	3.2
47.5°	1594.5	580.5	46.9	25.9	14.6	8.1	3.2	1.6	0.0	1.6	1.6
50°	1751.3	611.3	42.0	21.0	11.3	6.5	3.2	0.0	0.0	0.0	0.0
52.5°	1901.7	637.1	37.2	17.8	9.7	4.9	1.6	0.0	0.0	0.0	0.0
55°	2052.1	653.3	32.3	14.6	8.1	4.9	1.6	0.0	0.0	0.0	0.0
57.5°	2213.8	663.0	29.1	12.9	6.5	3.2	1.6	0.0	0.0	0.0	0.0
60°	2393.3	663.0	24.3	11.3	4.9	3.2	1.6	0.0	0.0	0.0	0.0
62.5°	2592.2	643.6	22.6	9.7	4.9	3.2	1.6	0.0	0.0	0.0	0.0
65°	2753.9	574.1	19.4	8.1	4.9	3.2	1.6	0.0	0.0	0.0	0.0
67.5°	2760.4	454.4	17.8	6.5	4.9	3.2	1.6	0.0	0.0	0.0	0.0
70°	2461.2	310.5	14.6	4.9	3.2	3.2	1.6	0.0	0.0	0.0	0.0
72.5°	1841.9	166.6	12.9	4.9	3.2	1.6	1.6	0.0	0.0	0.0	0.0
75°	992.9	64.7	8.1	4.9	3.2	1.6	1.6	0.0	0.0	0.0	0.0
77.5°	289.5	32.3	4.9	3.2	3.2	1.6	1.6	0.0	0.0	0.0	0.0
80°	53.4	16.2	3.2	3.2	3.2	1.6	0.0	0.0	0.0	0.0	0.0
82.5°	14.6	6.5	1.6	1.6	1.6	1.6	0.0	0.0	0.0	0.0	0.0
85°	6.5	3.2	1.6	1.6	1.6	1.6	0.0	0.0	0.0	0.0	0.0
87.5°	3.2	1.6	1.6	1.6	1.6	1.6	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)