

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: P594139

Luminaire Tested: **ISC-PA1C-735-U-T2U-HSS**

Issue Date: 3/22/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P594139  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2201-510-9)  
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-T2U-HSS  
Description: IMPACT ELITE LED CYLINDER LUMINAIRE  
(1) 70 CRI, 3500K, 615mA LIGHT ENGINE WITH 24 LEDS AND TYPE II U OPTICS  
WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4686 lumens  
Efficiency: N/A  
Efficacy: 95.8 lumens/watt  
Luminous Opening: Rectangular (W 0.75' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G1

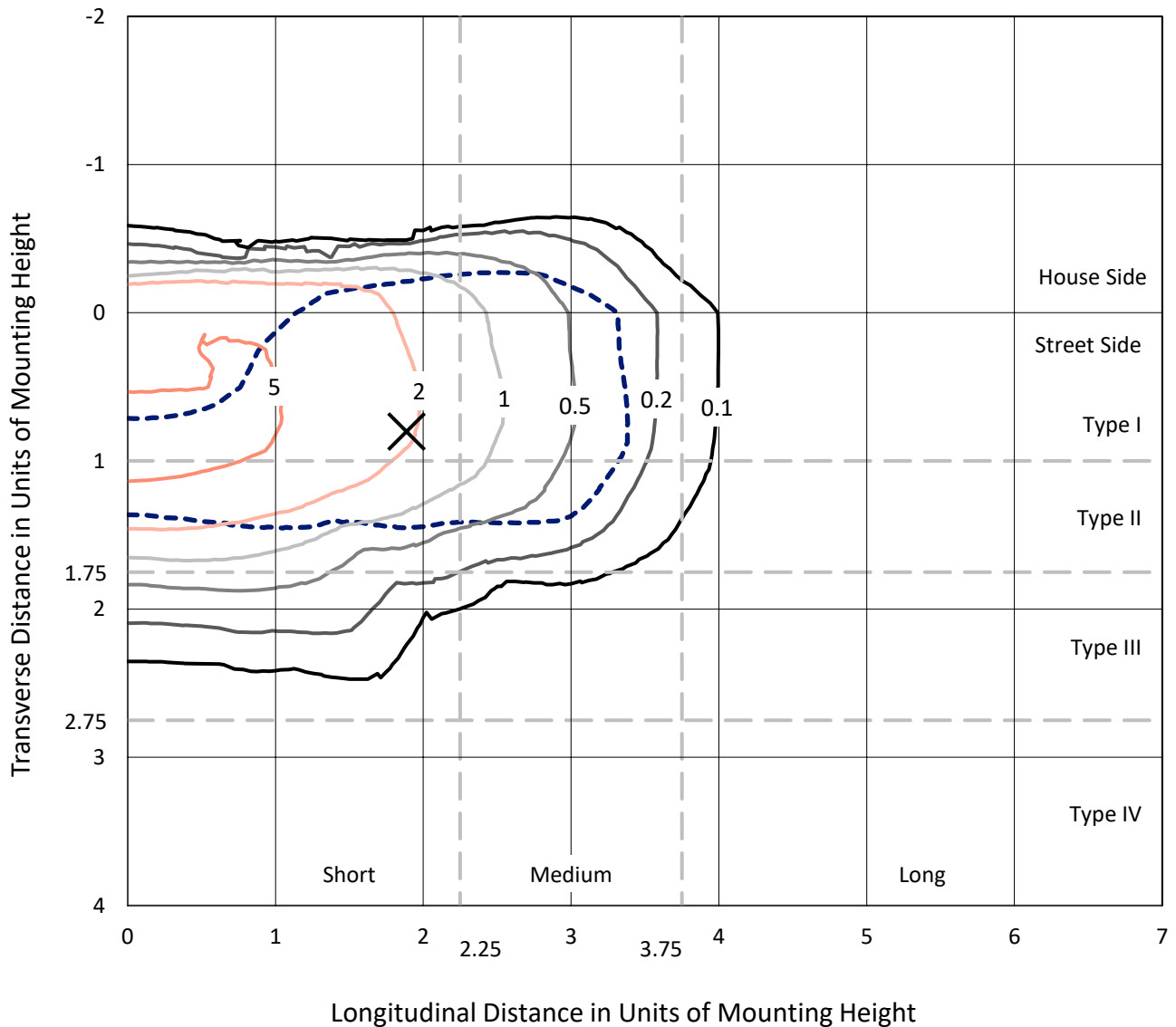
Input Watts (W): 48.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

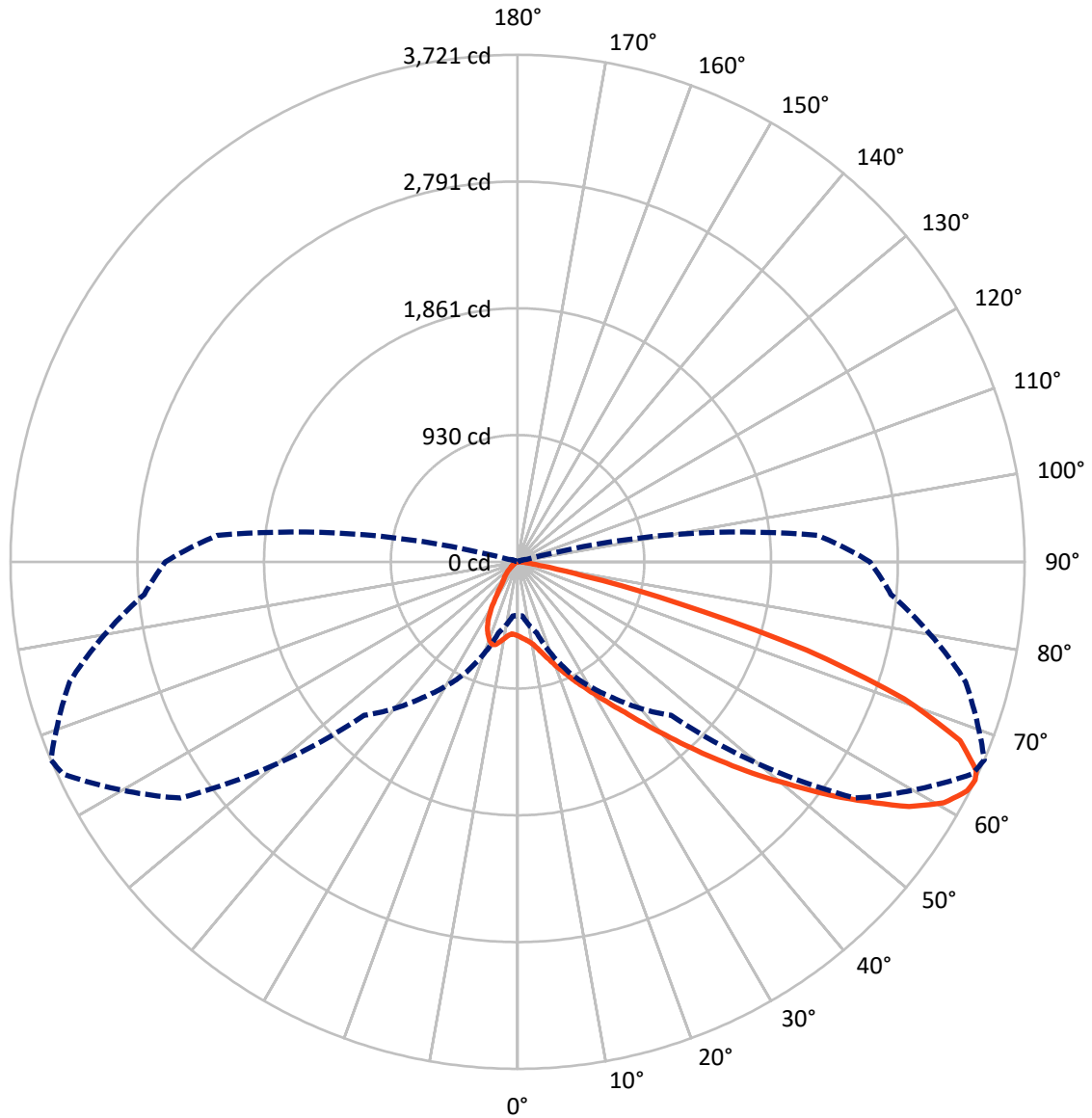
✕ Max cd  
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 7.2 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral      - - - Horizontal Cone Through 64-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	599.4	0.0	599.4
	% Fixture	12.8	0.0	12.8
<b>Street Side</b>	Lumens	4086.6	0.0	4086.6
	% Fixture	87.2	0.0	87.2
<b>Total</b>	Lumens	4686.0	0.0	4686.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	51.6	1.1
10°-20°	152.5	3.3
20°-30°	276.6	5.9
30°-40°	529.9	11.3
40°-50°	976.6	20.8
50°-60°	1261.4	26.9
60°-70°	1033.2	22.0
70°-80°	379.8	8.1
80°-90°	24.5	0.5
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°	4686.0	100.0
0°-180°	4686.0	100.0

**Coefficient of Utilization**

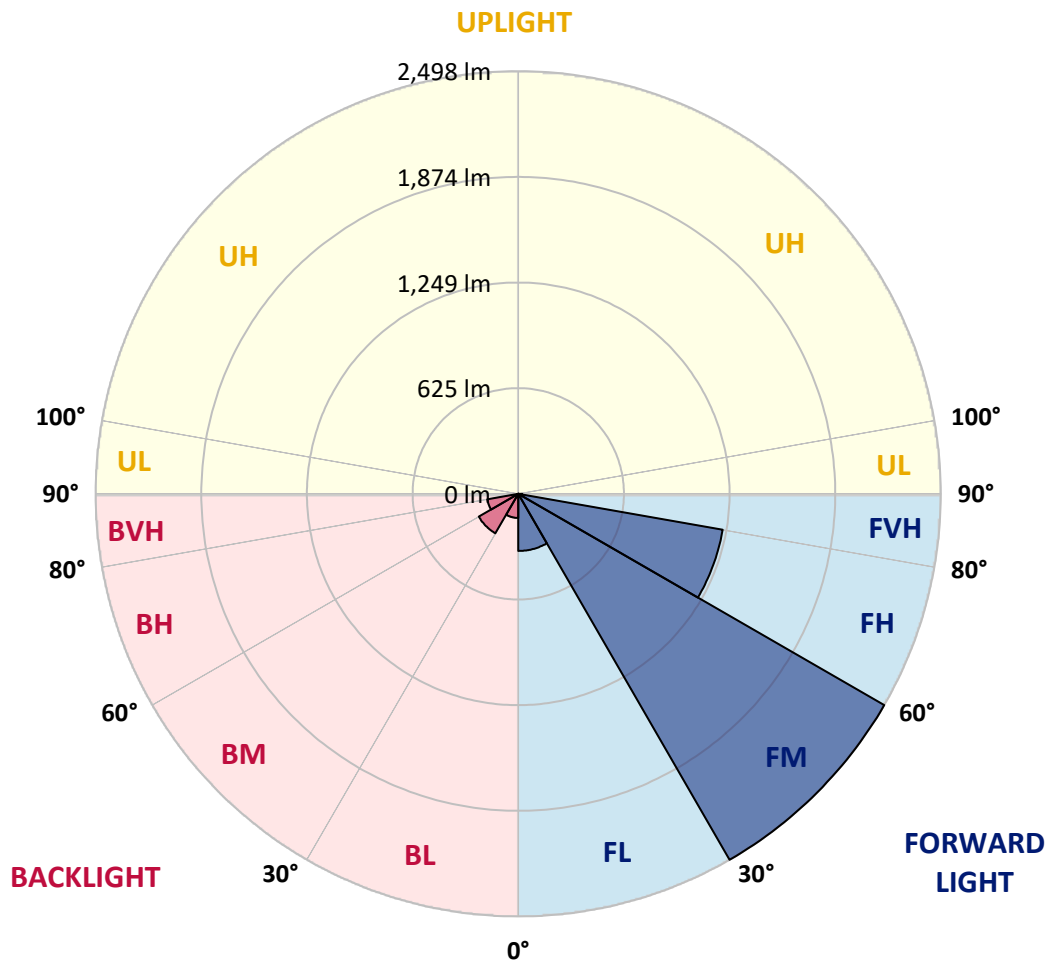


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	337.8	7.2			
FM (30°-60°)	2498.3	53.3			
FH (60°-80°)	1227.0	26.2			G1/1800
FVH (80°-90°)	23.4	0.5			G1/100
BL (0°-30°)	142.9	3.0	B1/500		
BM (30°-60°)	269.5	5.8	B1/1000		
BH (60°-80°)	186.0	4.0	B1/500		G1/500
BVH (80°-90°)	1.1	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 II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	544.5	544.5	544.5	544.5	544.5	544.5	544.5	544.5	544.5	544.5	544.5
2.5°	563.8	563.8	567.0	565.4	565.4	562.2	557.4	559.0	557.4	555.8	550.9
5°	554.2	555.8	557.4	560.6	567.0	570.3	570.3	571.9	571.9	570.3	563.8
7.5°	549.3	552.5	555.8	559.0	567.0	571.9	579.9	589.6	589.6	591.2	584.8
10°	567.0	570.3	575.1	579.9	588.0	596.0	602.5	613.8	613.8	617.0	615.4
12.5°	604.1	604.1	605.7	608.9	620.2	629.9	641.1	650.8	652.4	654.0	649.2
15°	649.2	649.2	650.8	650.8	657.3	671.8	692.7	702.4	700.7	699.1	689.5
17.5°	700.7	700.7	700.7	702.4	705.6	713.6	737.8	757.1	755.5	753.9	734.6
20°	749.1	752.3	755.5	757.1	760.4	766.8	792.6	815.1	820.0	813.5	779.7
22.5°	803.8	805.5	807.1	811.9	820.0	823.2	849.0	882.8	887.6	879.6	834.5
25°	858.6	861.8	866.7	873.1	881.2	897.3	915.0	960.1	964.9	955.3	894.1
27.5°	979.4	977.8	963.3	952.1	953.7	964.9	989.1	1037.4	1042.3	1032.6	953.7
30°	1185.6	1166.3	1138.9	1089.0	1040.7	1045.5	1079.3	1126.0	1134.1	1121.2	1019.7
32.5°	1478.8	1459.5	1391.8	1282.3	1176.0	1140.5	1184.0	1229.1	1238.8	1224.3	1097.0
35°	1764.0	1759.1	1694.7	1562.6	1382.2	1283.9	1295.2	1353.2	1356.4	1338.7	1193.7
37.5°	2116.7	2099.0	2010.4	1862.2	1649.6	1474.0	1441.8	1496.5	1504.6	1483.7	1311.3
40°	2350.3	2343.9	2290.7	2186.0	1957.3	1736.6	1620.6	1673.7	1672.1	1641.5	1446.6
42.5°	2485.6	2488.9	2485.6	2435.7	2305.2	2052.3	1857.4	1860.6	1865.4	1833.2	1602.9
45°	2577.5	2577.5	2582.3	2622.6	2572.6	2429.3	2145.7	2073.3	2079.7	2029.8	1765.6
47.5°	2575.9	2585.5	2611.3	2704.7	2772.4	2780.4	2506.6	2321.3	2318.1	2242.4	1933.1
50°	2401.9	2395.4	2501.8	2711.2	2914.1	3070.4	2848.1	2583.9	2556.5	2463.1	2107.1
52.5°	2010.4	2031.4	2208.6	2516.3	2948.0	3266.9	3142.9	2870.7	2835.2	2682.2	2260.1
55°	1668.9	1691.5	1863.8	2165.1	2764.3	3336.2	3341.0	3175.1	3104.2	2872.3	2418.0
57.5°	1253.3	1296.8	1551.3	1834.8	2361.6	3163.8	3411.9	3466.7	3389.4	3055.9	2546.9
60°	800.6	826.4	1111.5	1461.1	1913.8	2712.8	3397.4	3635.8	3594.0	3223.4	2654.8
62.5°	523.5	538.0	734.6	1100.3	1457.9	2044.3	3225.1	3703.5	3703.5	3336.2	2735.3
64°	394.7	397.9	538.0	894.1	1216.2	1593.2	3022.1	3682.6	3721.2	3403.9	2751.4
65°	312.5	314.1	420.4	742.6	1092.2	1306.5	2844.9	3637.5	3700.3	3429.6	2761.1
67.5°	219.1	223.9	272.2	428.5	782.9	753.9	2108.7	3424.8	3502.1	3437.7	2748.2
70°	190.1	196.5	228.8	280.3	559.0	438.2	1121.2	2919.0	3010.8	3202.5	2558.1
72.5°	145.0	153.0	191.7	236.8	393.1	296.4	433.3	2073.3	2218.2	2476.0	2111.9
75°	104.7	107.9	141.8	193.3	275.5	228.8	186.9	1069.6	1216.2	1461.1	1312.9
77.5°	66.0	70.9	96.7	145.0	246.5	174.0	111.2	389.8	491.3	636.3	573.5
80°	38.7	40.3	58.0	99.9	165.9	128.9	70.9	138.5	167.5	236.8	153.0
82.5°	22.6	24.2	37.1	67.7	107.9	99.9	45.1	70.9	78.9	90.2	32.2
85°	8.1	8.1	25.8	40.3	58.0	49.9	25.8	37.1	40.3	49.9	9.7
87.5°	1.6	1.6	12.9	20.9	20.9	8.1	12.9	16.1	19.3	27.4	3.2
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°	544.5	544.5	544.5	544.5	544.5	544.5	544.5	544.5	544.5	544.5	544.5
2.5°	549.3	544.5	539.7	533.2	528.4	518.7	513.9	507.4	505.8	502.6	501.0
5°	562.2	554.2	542.9	526.8	517.1	502.6	492.9	483.3	481.7	478.4	476.8
7.5°	579.9	571.9	557.4	539.7	523.5	509.0	497.8	483.3	468.8	457.5	457.5
10°	608.9	599.3	579.9	563.8	544.5	513.9	460.7	412.4	381.8	362.5	356.0
12.5°	644.4	631.5	610.5	591.2	554.2	457.5	375.3	312.5	261.0	236.8	232.0
15°	681.4	670.1	649.2	620.2	509.0	381.8	273.9	177.2	127.3	104.7	107.9
17.5°	721.7	705.6	681.4	623.4	447.8	285.1	146.6	90.2	77.3	74.1	74.1
20°	763.6	742.6	718.5	588.0	368.9	164.3	83.8	67.7	62.8	58.0	59.6
22.5°	808.7	782.9	745.9	534.8	264.2	88.6	64.4	54.8	48.3	46.7	46.7
25°	857.0	820.0	773.2	473.6	153.0	67.7	53.2	43.5	38.7	37.1	35.4
27.5°	908.6	861.8	779.7	393.1	87.0	56.4	41.9	33.8	29.0	27.4	27.4
30°	955.3	903.7	765.2	291.6	66.0	46.7	33.8	25.8	22.6	22.6	22.6
32.5°	1018.1	950.4	720.1	182.0	53.2	37.1	25.8	20.9	17.7	17.7	17.7
35°	1100.3	1019.7	675.0	96.7	43.5	30.6	20.9	16.1	14.5	14.5	14.5
37.5°	1213.0	1111.5	634.7	61.2	35.4	24.2	16.1	12.9	11.3	11.3	11.3
40°	1329.0	1221.1	578.3	46.7	29.0	19.3	12.9	9.7	8.1	8.1	9.7
42.5°	1474.0	1348.3	513.9	40.3	24.2	16.1	9.7	6.4	4.8	6.4	6.4
45°	1620.6	1482.0	423.7	33.8	20.9	12.9	6.4	3.2	3.2	4.8	4.8
47.5°	1772.0	1623.8	328.6	29.0	17.7	9.7	4.8	1.6	1.6	3.2	3.2
50°	1928.3	1764.0	244.9	25.8	14.5	8.1	3.2	1.6	0.0	1.6	1.6
52.5°	2084.5	1899.3	190.1	22.6	12.9	6.4	1.6	0.0	0.0	0.0	1.6
55°	2229.5	2021.7	151.4	19.3	11.3	4.8	1.6	0.0	0.0	0.0	0.0
57.5°	2351.9	2111.9	120.8	17.7	9.7	3.2	1.6	0.0	0.0	0.0	0.0
60°	2467.9	2182.8	93.4	14.5	8.1	3.2	1.6	0.0	0.0	0.0	0.0
62.5°	2550.1	2210.2	75.7	12.9	6.4	3.2	0.0	0.0	0.0	0.0	0.0
64°	2585.5	2213.4	66.0	11.3	6.4	3.2	1.6	0.0	0.0	0.0	0.0
65°	2606.5	2203.7	61.2	11.3	6.4	3.2	1.6	0.0	0.0	0.0	0.0
67.5°	2611.3	2150.6	46.7	9.7	4.8	1.6	1.6	0.0	0.0	0.0	0.0
70°	2469.5	1965.3	33.8	6.4	3.2	1.6	0.0	0.0	0.0	0.0	0.0
72.5°	2063.6	1501.4	22.6	4.8	3.2	1.6	0.0	0.0	0.0	0.0	0.0
75°	1288.7	649.2	12.9	4.8	1.6	1.6	0.0	0.0	0.0	0.0	0.0
77.5°	533.2	196.5	8.1	3.2	1.6	1.6	0.0	0.0	0.0	0.0	0.0
80°	122.4	46.7	3.2	1.6	1.6	1.6	0.0	0.0	0.0	0.0	0.0
82.5°	29.0	8.1	1.6	1.6	1.6	1.6	0.0	0.0	0.0	0.0	0.0
85°	6.4	1.6	1.6	1.6	1.6	0.0	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)