

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: P595289

Luminaire Tested: **IST-PA1E-735-U-T2R-HSS**

Issue Date: 3/22/2022

Test Information

Test Method: LM-79-08
Report Number: P595289
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: IST-PA1E-735-U-T2R-HSS
Description: IMPACT ELITE LED TRAPEZOID LUMINAIRE
(1) 70 CRI, 3500K, 1050mA 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: 7716 lumens
Efficiency: N/A
Efficacy: 94.7 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G2

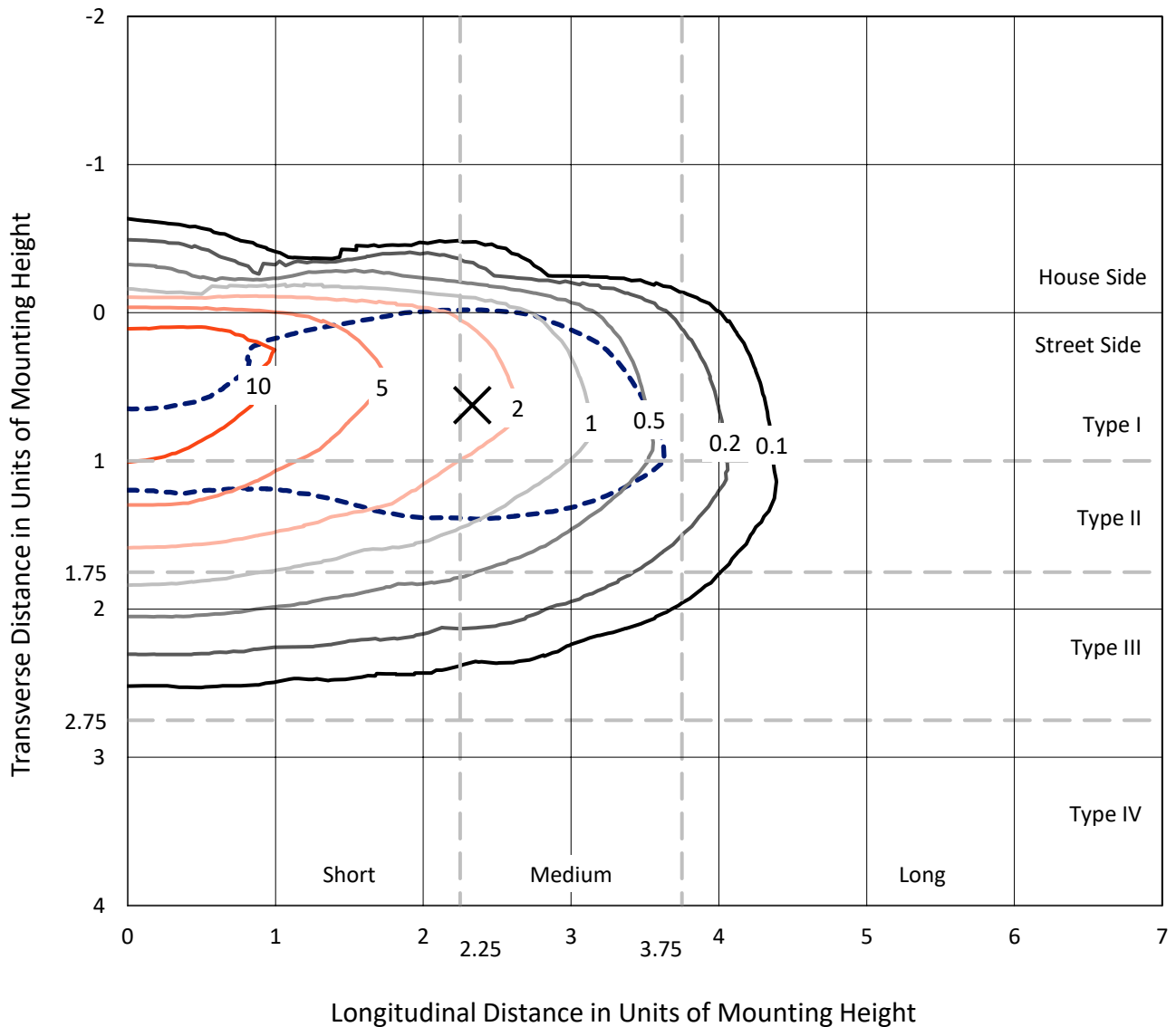
Input Watts (W): 81.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

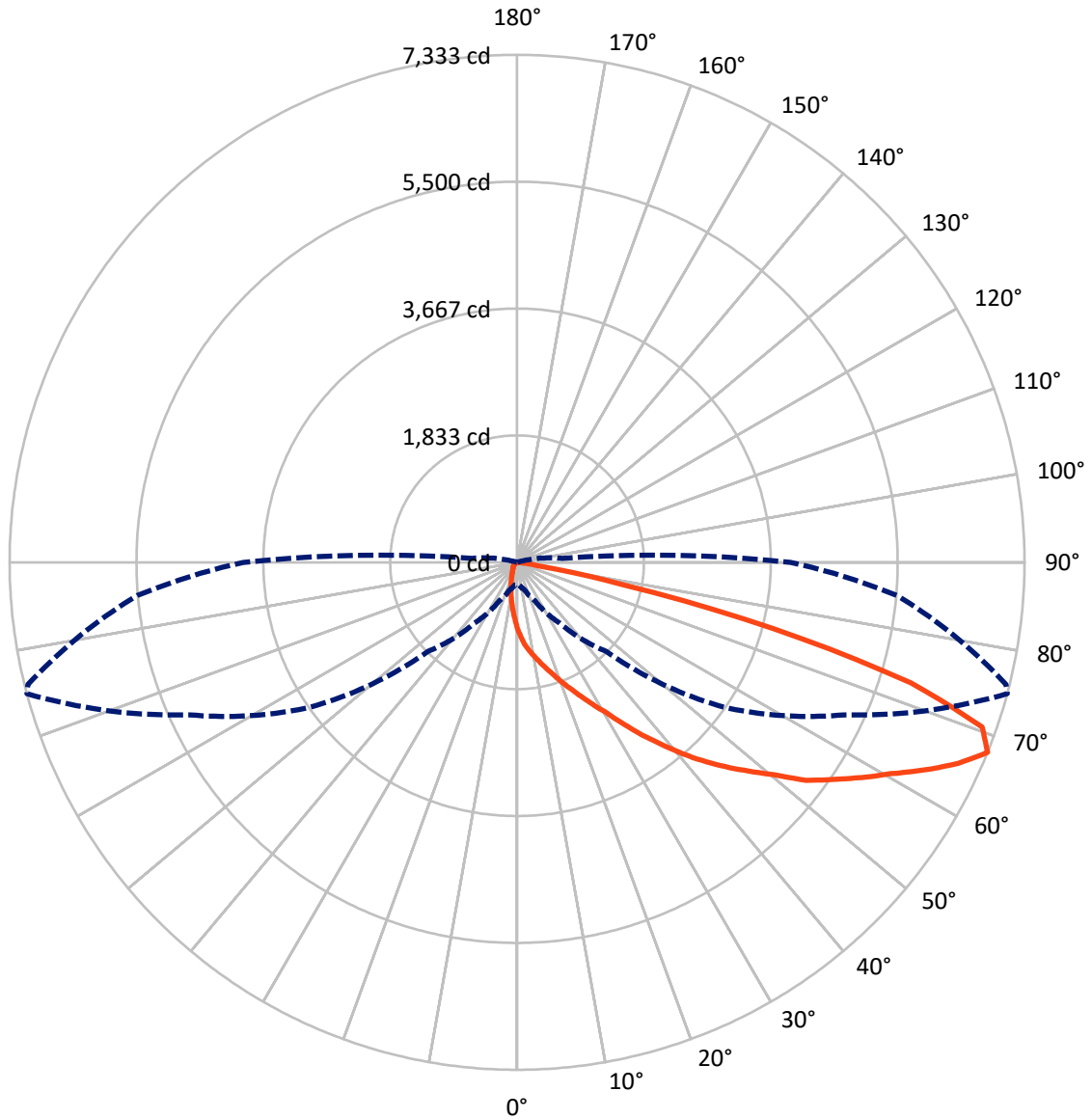
× Max cd
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 15.1 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
House Side	Lumens	389.0	0.0	389.0
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	7327.0	0.0	7327.0
	% Fixture	95.0	0.0	95.0
Total	Lumens	7716.0	0.0	7716.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	86.5	1.1
10°-20°	279.1	3.6
20°-30°	561.0	7.3
30°-40°	1061.2	13.8
40°-50°	1587.6	20.6
50°-60°	1832.9	23.8
60°-70°	1624.7	21.1
70°-80°	656.7	8.5
80°-90°	26.2	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°	7716.0	100.0
0°-180°	7716.0	100.0

Coefficient of Utilization

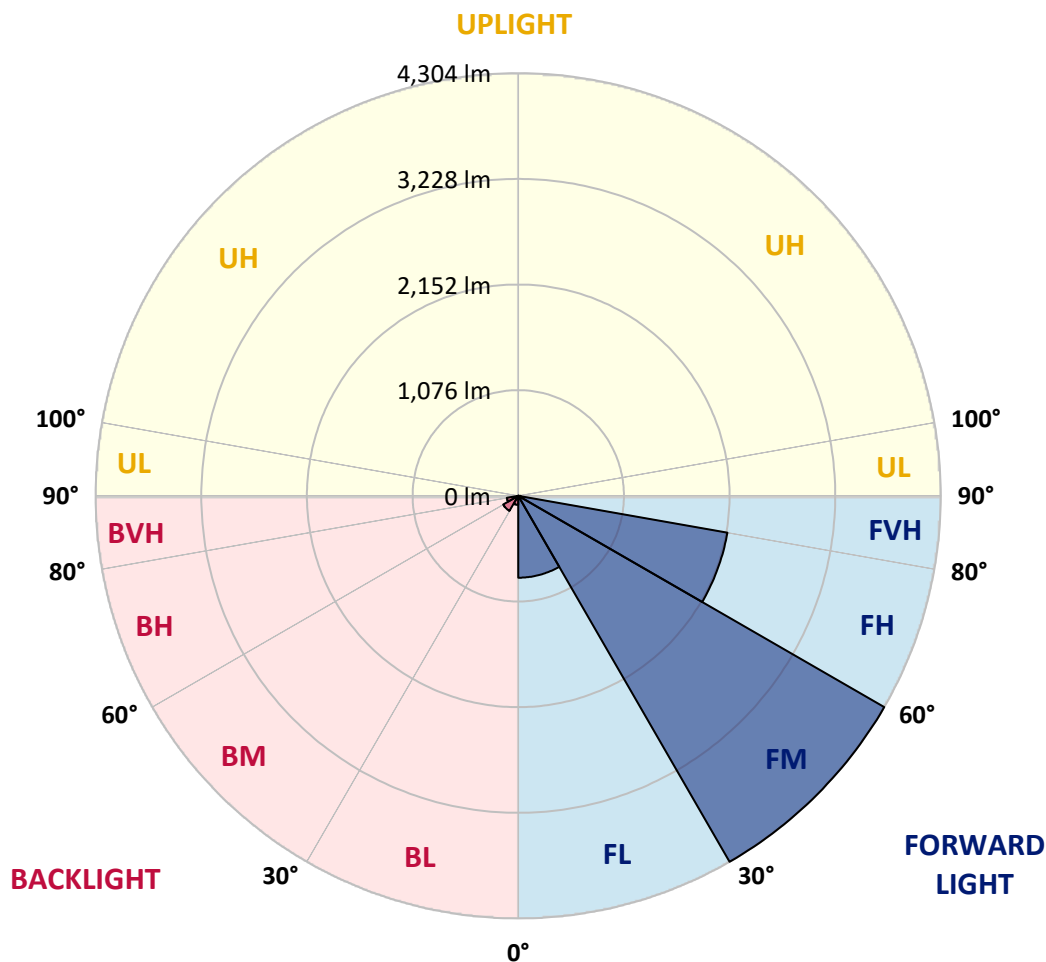


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	834.2	10.8			
FM (30°-60°)	4304.3	55.8			
FH (60°-80°)	2163.5	28.0			G2/5000
FVH (80°-90°)	25.1	0.3			G1/100
BL (0°-30°)	92.5	1.2	B0/110		
BM (30°-60°)	177.4	2.3	B0/220		
BH (60°-80°)	117.9	1.5	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-G2
 Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	958.9	958.9	958.9	958.9	958.9	958.9	958.9	958.9	958.9	958.9	958.9
2.5°	1334.1	1338.8	1329.5	1308.7	1290.1	1246.1	1211.4	1148.8	1081.7	1081.7	1000.6
5°	1491.6	1487.0	1482.4	1466.2	1452.3	1415.2	1368.9	1301.7	1197.5	1188.2	1053.9
7.5°	1568.1	1563.5	1554.2	1547.2	1547.2	1521.8	1477.8	1408.3	1292.5	1283.2	1102.5
10°	1658.4	1649.2	1649.2	1630.6	1626.0	1595.9	1572.7	1512.5	1385.1	1373.5	1158.1
12.5°	1765.0	1755.7	1758.0	1741.8	1734.9	1702.4	1670.0	1612.1	1484.7	1473.1	1223.0
15°	1825.2	1820.6	1834.4	1836.8	1841.4	1813.6	1783.5	1723.3	1595.9	1579.7	1299.4
17.5°	1859.9	1859.9	1876.1	1906.3	1941.0	1924.8	1901.6	1853.0	1709.4	1700.1	1380.5
20°	1927.1	1920.1	1947.9	1975.7	2019.7	2033.6	2026.7	1989.6	1846.0	1818.2	1468.5
22.5°	2038.3	2029.0	2054.5	2089.2	2142.5	2147.1	2151.8	2133.2	1985.0	1957.2	1561.1
25°	2300.0	2276.8	2253.7	2249.1	2269.9	2288.4	2274.5	2288.4	2142.5	2117.0	1660.7
27.5°	2809.6	2770.2	2659.0	2536.3	2450.6	2466.8	2422.8	2448.2	2323.2	2290.7	1753.4
30°	3298.3	3258.9	3168.6	2950.9	2754.0	2666.0	2601.1	2591.9	2508.5	2471.4	1859.9
32.5°	3638.8	3613.3	3553.1	3407.2	3161.6	2937.0	2811.9	2767.9	2756.3	2698.4	1996.6
35°	3870.4	3847.2	3805.6	3687.4	3506.8	3256.6	3041.2	2943.9	3031.9	2962.5	2151.8
37.5°	4009.4	3993.2	3946.8	3865.8	3768.5	3604.0	3326.1	3170.9	3309.9	3245.0	2351.0
40°	4111.3	4069.6	4037.2	3974.6	3942.2	3888.9	3650.4	3407.2	3611.0	3543.8	2547.8
42.5°	4120.6	4102.0	4076.6	4039.5	4044.1	4078.9	3995.5	3680.5	3914.4	3851.9	2756.3
45°	4118.2	4099.7	4081.2	4044.1	4067.3	4197.0	4273.4	3967.7	4210.9	4146.0	2976.3
47.5°	4051.1	4037.2	4041.8	4041.8	4071.9	4248.0	4488.8	4259.5	4507.4	4444.8	3242.7
50°	3814.8	3828.7	3921.4	3970.0	4023.3	4250.3	4639.4	4565.3	4827.0	4783.0	3499.8
52.5°	3066.7	3145.4	3520.7	3777.8	3932.9	4203.9	4736.7	4887.2	5232.3	5165.2	3791.7
55°	2344.0	2348.7	2710.0	3307.6	3754.6	4120.6	4792.3	5105.0	5540.4	5503.3	4048.8
57.5°	1901.6	1899.3	2077.7	2615.0	3291.4	3988.5	4806.2	5264.8	5867.0	5797.5	4345.2
60°	1554.2	1544.9	1651.5	1982.7	2689.1	3678.2	4755.2	5394.5	6202.8	6177.4	4655.6
62.5°	1123.4	1132.6	1273.9	1531.0	2073.0	3106.1	4646.3	5433.9	6608.2	6582.7	5003.0
65°	646.2	674.0	829.2	1102.5	1588.9	2429.7	4336.0	5403.8	7004.3	7001.9	5325.0
67.5°	324.3	326.6	410.0	616.1	1067.8	1818.2	3650.4	5213.8	7333.2	7282.2	5510.3
70°	208.5	213.1	240.9	317.3	590.6	1260.0	2788.7	4676.5	7127.0	7108.5	5239.3
72.5°	159.8	164.5	187.6	208.5	308.1	715.7	1887.7	3634.2	5950.4	5899.4	4085.8
75°	125.1	127.4	150.6	169.1	206.1	335.9	947.3	2265.3	3833.4	3701.3	2325.5
77.5°	99.6	101.9	113.5	134.3	157.5	187.6	280.3	1019.1	1558.8	1392.1	755.1
80°	64.9	67.2	85.7	104.2	134.3	122.8	108.9	294.2	333.5	301.1	134.3
82.5°	37.1	39.4	57.9	83.4	101.9	69.5	62.5	85.7	78.8	76.4	41.7
85°	11.6	11.6	39.4	57.9	46.3	20.8	39.4	30.1	25.5	23.2	13.9
87.5°	2.3	2.3	18.5	20.8	6.9	2.3	4.6	6.9	9.3	11.6	6.9
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°	958.9	958.9	958.9	958.9	958.9	958.9	958.9	958.9	958.9	958.9	958.9
2.5°	961.2	914.9	829.2	755.1	683.3	620.7	576.7	537.4	509.6	502.6	491.0
5°	968.2	877.8	713.4	574.4	454.0	356.7	301.1	264.0	245.5	233.9	233.9
7.5°	975.1	840.8	604.5	419.2	287.2	217.7	183.0	166.8	159.8	157.5	155.2
10°	989.0	813.0	511.9	301.1	196.9	164.5	150.6	143.6	139.0	136.7	136.7
12.5°	1012.2	789.8	426.2	222.4	162.1	145.9	136.7	127.4	122.8	120.4	120.4
15°	1042.3	773.6	352.1	178.3	148.2	132.0	120.4	111.2	104.2	101.9	101.9
17.5°	1084.0	762.0	289.5	157.5	136.7	118.1	104.2	95.0	88.0	85.7	85.7
20°	1125.7	762.0	238.6	145.9	125.1	104.2	90.3	78.8	71.8	69.5	69.5
22.5°	1181.3	759.7	199.2	134.3	111.2	90.3	76.4	62.5	57.9	55.6	55.6
25°	1227.6	759.7	171.4	122.8	97.3	78.8	62.5	51.0	46.3	44.0	44.0
27.5°	1283.2	752.8	145.9	108.9	83.4	64.9	51.0	41.7	37.1	34.7	34.7
30°	1331.8	743.5	129.7	97.3	71.8	53.3	41.7	32.4	30.1	30.1	30.1
32.5°	1412.9	736.6	115.8	83.4	60.2	44.0	32.4	25.5	23.2	23.2	23.2
35°	1510.2	736.6	106.5	71.8	51.0	37.1	25.5	20.8	18.5	18.5	18.5
37.5°	1637.6	743.5	95.0	62.5	41.7	30.1	20.8	16.2	13.9	13.9	13.9
40°	1771.9	759.7	85.7	55.6	37.1	23.2	16.2	11.6	9.3	11.6	11.6
42.5°	1931.7	775.9	76.4	48.6	30.1	18.5	11.6	6.9	4.6	6.9	6.9
45°	2089.2	792.1	71.8	41.7	25.5	13.9	6.9	4.6	2.3	4.6	4.6
47.5°	2283.8	831.5	67.2	37.1	20.8	11.6	4.6	2.3	0.0	2.3	2.3
50°	2508.5	875.5	60.2	30.1	16.2	9.3	4.6	0.0	0.0	0.0	0.0
52.5°	2723.9	912.6	53.3	25.5	13.9	6.9	2.3	0.0	0.0	0.0	0.0
55°	2939.3	935.8	46.3	20.8	11.6	6.9	2.3	0.0	0.0	0.0	0.0
57.5°	3170.9	949.7	41.7	18.5	9.3	4.6	2.3	0.0	0.0	0.0	0.0
60°	3428.0	949.7	34.7	16.2	6.9	4.6	2.3	0.0	0.0	0.0	0.0
62.5°	3712.9	921.9	32.4	13.9	6.9	4.6	2.3	0.0	0.0	0.0	0.0
65°	3944.5	822.3	27.8	11.6	6.9	4.6	2.3	0.0	0.0	0.0	0.0
67.5°	3953.8	650.9	25.5	9.3	6.9	4.6	2.3	0.0	0.0	0.0	0.0
70°	3525.3	444.7	20.8	6.9	4.6	4.6	2.3	0.0	0.0	0.0	0.0
72.5°	2638.2	238.6	18.5	6.9	4.6	2.3	2.3	0.0	0.0	0.0	0.0
75°	1422.2	92.6	11.6	6.9	4.6	2.3	2.3	0.0	0.0	0.0	0.0
77.5°	414.6	46.3	6.9	4.6	4.6	2.3	2.3	0.0	0.0	0.0	0.0
80°	76.4	23.2	4.6	4.6	4.6	2.3	0.0	0.0	0.0	0.0	0.0
82.5°	20.8	9.3	2.3	2.3	2.3	2.3	0.0	0.0	0.0	0.0	0.0
85°	9.3	4.6	2.3	2.3	2.3	2.3	0.0	0.0	0.0	0.0	0.0
87.5°	4.6	2.3	2.3	2.3	2.3	2.3	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)