

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: P595129

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

Issue Date: 3/22/2022

Test Information

Test Method: LM-79-08
Report Number: P595129
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: IST-PA1C-735-U-T2U-HSS
Description: IMPACT ELITE LED TRAPEZOID 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: 4396 lumens
Efficiency: N/A
Efficacy: 91.0 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

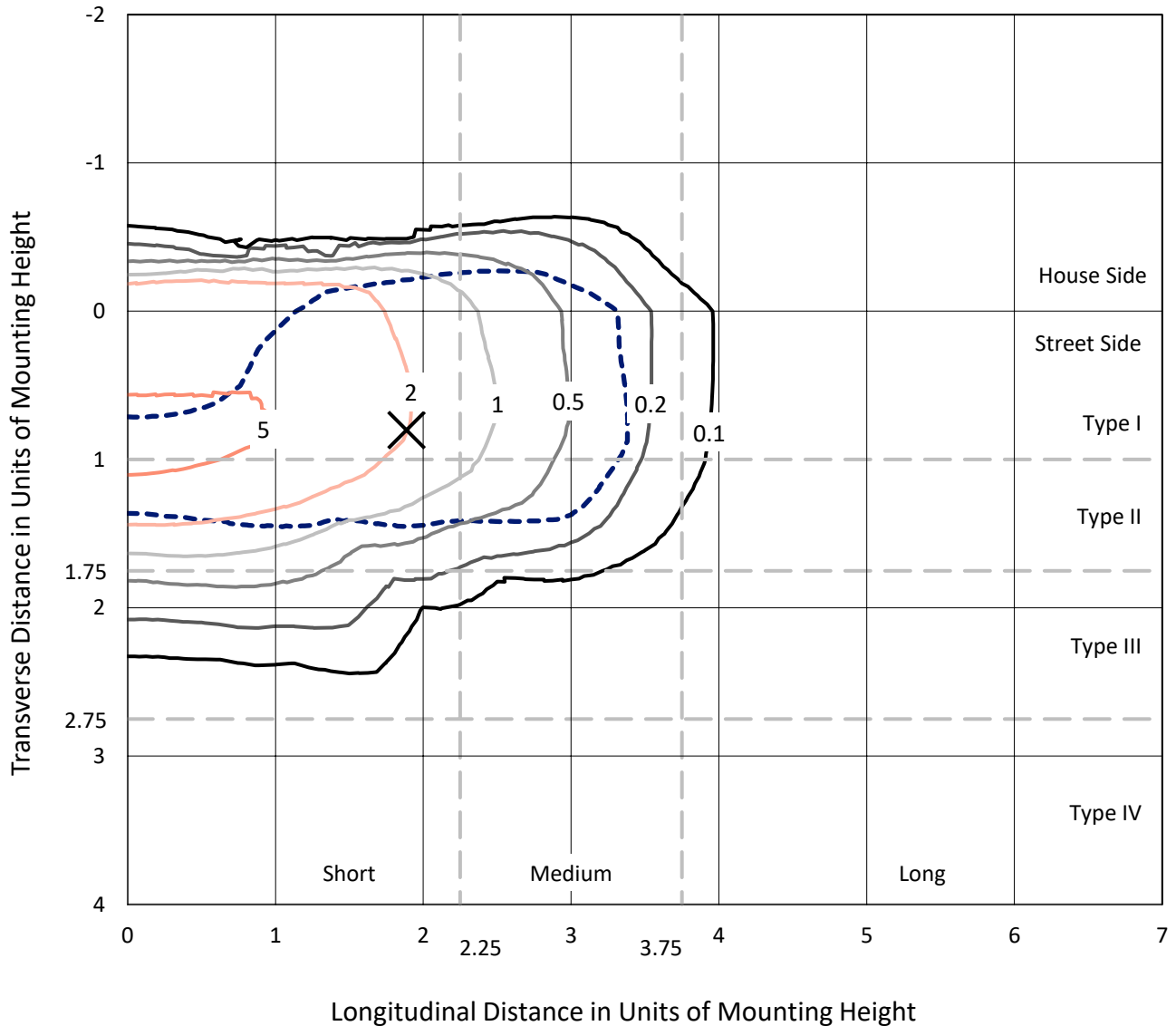
Input Watts (W): 48.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

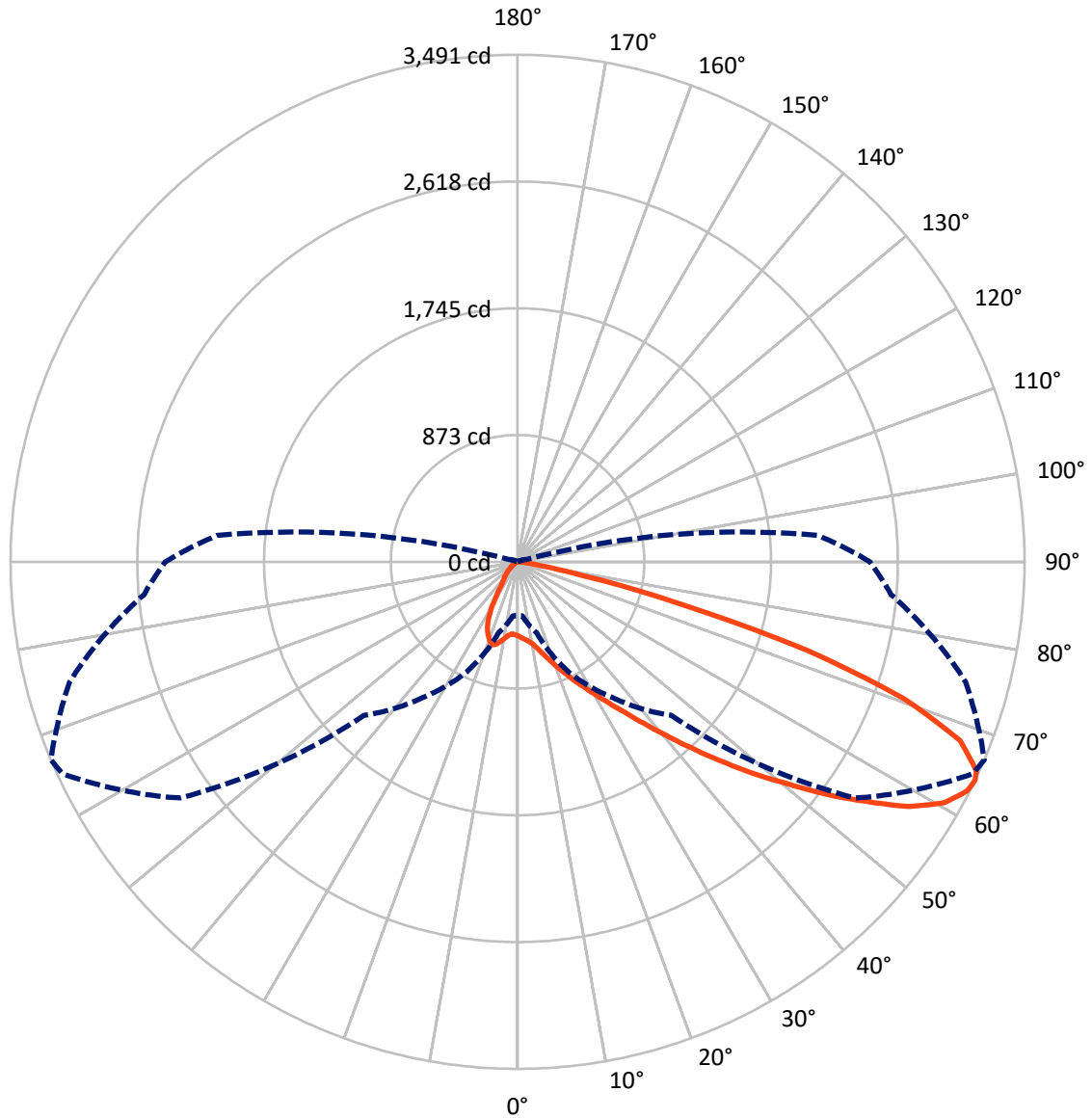
✕ Max cd
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 6.8 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
House Side	Lumens	562.3	0.0	562.3
	% Fixture	12.8	0.0	12.8
Street Side	Lumens	3833.7	0.0	3833.7
	% Fixture	87.2	0.0	87.2
Total	Lumens	4396.0	0.0	4396.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	48.5	1.1
10°-20°	143.0	3.3
20°-30°	259.5	5.9
30°-40°	497.1	11.3
40°-50°	916.2	20.8
50°-60°	1183.3	26.9
60°-70°	969.2	22.0
70°-80°	356.3	8.1
80°-90°	23.0	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°	4396.0	100.0
0°-180°	4396.0	100.0

Coefficient of Utilization



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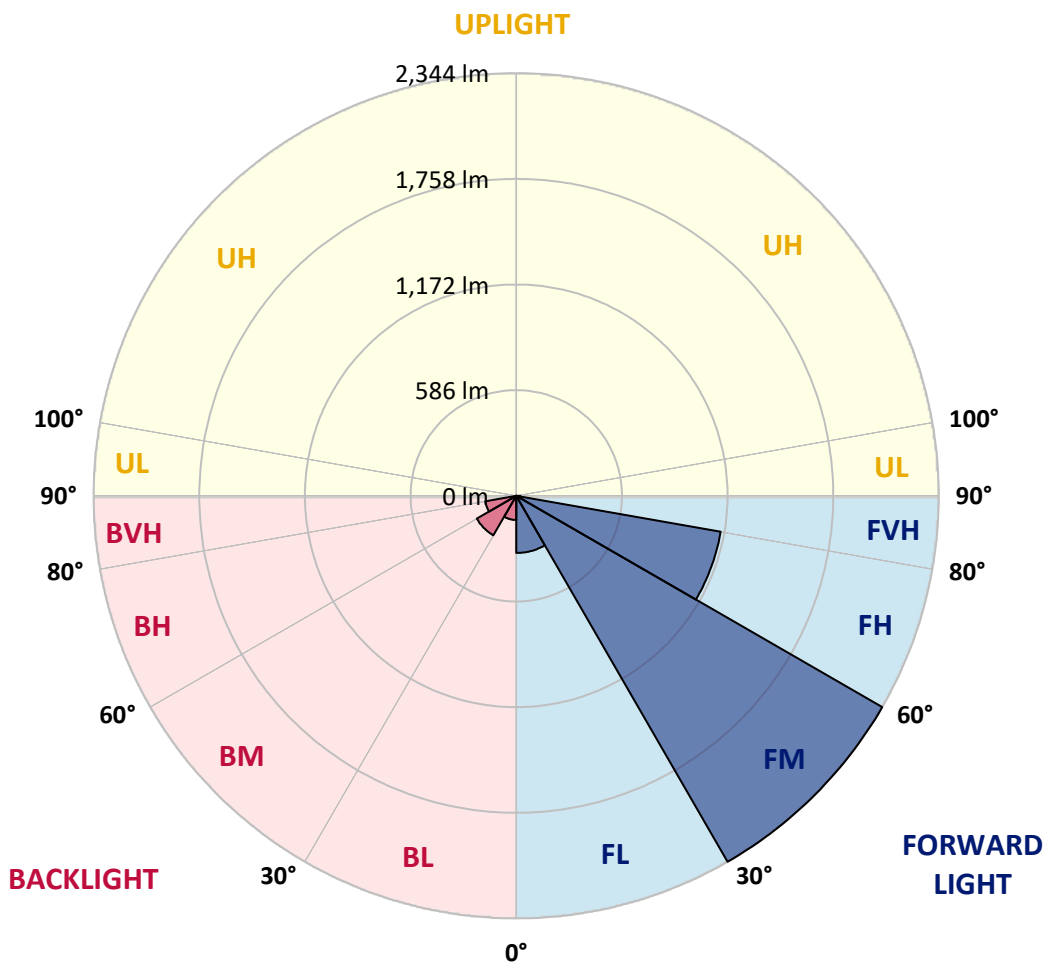
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	316.9	7.2			
FM (30°-60°)	2343.7	53.3			
FH (60°-80°)	1151.1	26.2			G1/1800
FVH (80°-90°)	21.9	0.5			G1/100
BL (0°-30°)	134.0	3.0	B1/500		
BM (30°-60°)	252.8	5.8	B1/1000		
BH (60°-80°)	174.5	4.0	B1/500		G1/500
BVH (80°-90°)	1.0	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°	510.8	510.8	510.8	510.8	510.8	510.8	510.8	510.8	510.8	510.8	510.8
2.5°	528.9	528.9	532.0	530.4	530.4	527.4	522.9	524.4	522.9	521.4	516.8
5°	519.9	521.4	522.9	525.9	532.0	535.0	535.0	536.5	536.5	535.0	528.9
7.5°	515.3	518.3	521.4	524.4	532.0	536.5	544.0	553.1	553.1	554.6	548.6
10°	532.0	535.0	539.5	544.0	551.6	559.2	565.2	575.8	575.8	578.8	577.3
12.5°	566.7	566.7	568.2	571.2	581.8	590.9	601.5	610.5	612.0	613.6	609.0
15°	609.0	609.0	610.5	610.5	616.6	630.2	649.8	658.9	657.4	655.9	646.8
17.5°	657.4	657.4	657.4	658.9	661.9	669.5	692.1	710.3	708.8	707.3	689.1
20°	702.7	705.7	708.8	710.3	713.3	719.3	743.5	764.7	769.2	763.2	731.4
22.5°	754.1	755.6	757.1	761.7	769.2	772.2	796.4	828.2	832.7	825.1	782.8
25°	805.5	808.5	813.0	819.1	826.6	841.8	858.4	900.7	905.2	896.2	838.7
27.5°	918.8	917.3	903.7	893.1	894.6	905.2	927.9	973.2	977.8	968.7	894.6
30°	1112.3	1094.1	1068.4	1021.6	976.3	980.8	1012.5	1056.3	1063.9	1051.8	956.6
32.5°	1387.3	1369.2	1305.7	1202.9	1103.2	1069.9	1110.7	1153.1	1162.1	1148.5	1029.1
35°	1654.8	1650.3	1589.8	1465.9	1296.6	1204.4	1215.0	1269.4	1272.4	1255.8	1119.8
37.5°	1985.7	1969.1	1886.0	1747.0	1547.5	1382.8	1352.5	1403.9	1411.5	1391.8	1230.1
40°	2204.9	2198.8	2149.0	2050.7	1836.1	1629.1	1520.3	1570.2	1568.6	1539.9	1357.1
42.5°	2331.8	2334.8	2331.8	2285.0	2162.6	1925.3	1742.4	1745.5	1750.0	1719.8	1503.7
45°	2418.0	2418.0	2422.5	2460.3	2413.4	2278.9	2012.9	1944.9	1951.0	1904.1	1656.3
47.5°	2416.4	2425.5	2449.7	2537.3	2600.8	2608.4	2351.5	2177.7	2174.7	2103.6	1813.5
50°	2253.2	2247.2	2346.9	2543.4	2733.8	2880.4	2671.8	2424.0	2398.3	2310.7	1976.7
52.5°	1886.0	1905.7	2071.9	2360.5	2765.5	3064.8	2948.4	2693.0	2659.8	2516.2	2120.2
55°	1565.6	1586.8	1748.5	2031.1	2593.3	3129.7	3134.3	2978.6	2912.1	2694.5	2268.3
57.5°	1175.7	1216.5	1455.3	1721.3	2215.5	2968.0	3200.8	3252.2	3179.6	2866.8	2389.2
60°	751.1	775.3	1042.7	1370.7	1795.3	2544.9	3187.2	3410.8	3371.5	3024.0	2490.5
62.5°	491.1	504.7	689.1	1032.2	1367.7	1917.7	3025.5	3474.3	3474.3	3129.7	2566.1
64°	370.2	373.3	504.7	838.7	1141.0	1494.6	2835.1	3454.7	3490.9	3193.2	2581.2
65°	293.2	294.7	394.4	696.7	1024.6	1225.6	2668.8	3412.3	3471.3	3217.4	2590.2
67.5°	205.5	210.1	255.4	402.0	734.5	707.3	1978.2	3212.9	3285.4	3225.0	2578.1
70°	178.3	184.4	214.6	263.0	524.4	411.1	1051.8	2738.3	2824.5	3004.3	2399.8
72.5°	136.0	143.6	179.8	222.1	368.7	278.1	406.5	1944.9	2081.0	2322.8	1981.2
75°	98.2	101.3	133.0	181.3	258.4	214.6	175.3	1003.5	1141.0	1370.7	1231.6
77.5°	62.0	66.5	90.7	136.0	231.2	163.2	104.3	365.7	460.9	596.9	538.0
80°	36.3	37.8	54.4	93.7	155.7	120.9	66.5	130.0	157.2	222.1	143.6
82.5°	21.2	22.7	34.8	63.5	101.3	93.7	42.3	66.5	74.0	84.6	30.2
85°	7.6	7.6	24.2	37.8	54.4	46.8	24.2	34.8	37.8	46.8	9.1
87.5°	1.5	1.5	12.1	19.6	19.6	7.6	12.1	15.1	18.1	25.7	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°	510.8	510.8	510.8	510.8	510.8	510.8	510.8	510.8	510.8	510.8	510.8
2.5°	515.3	510.8	506.3	500.2	495.7	486.6	482.1	476.0	474.5	471.5	470.0
5°	527.4	519.9	509.3	494.2	485.1	471.5	462.4	453.4	451.9	448.8	447.3
7.5°	544.0	536.5	522.9	506.3	491.1	477.5	467.0	453.4	439.8	429.2	429.2
10°	571.2	562.2	544.0	528.9	510.8	482.1	432.2	386.9	358.2	340.0	334.0
12.5°	604.5	592.4	572.8	554.6	519.9	429.2	352.1	293.2	244.8	222.1	217.6
15°	639.2	628.7	609.0	581.8	477.5	358.2	256.9	166.2	119.4	98.2	101.3
17.5°	677.0	661.9	639.2	584.8	420.1	267.5	137.5	84.6	72.5	69.5	69.5
20°	716.3	696.7	674.0	551.6	346.1	154.1	78.6	63.5	58.9	54.4	55.9
22.5°	758.6	734.5	699.7	501.7	247.8	83.1	60.4	51.4	45.3	43.8	43.8
25°	804.0	769.2	725.4	444.3	143.6	63.5	49.9	40.8	36.3	34.8	33.2
27.5°	852.3	808.5	731.4	368.7	81.6	52.9	39.3	31.7	27.2	25.7	25.7
30°	896.2	847.8	717.8	273.5	62.0	43.8	31.7	24.2	21.2	21.2	21.2
32.5°	955.1	891.6	675.5	170.8	49.9	34.8	24.2	19.6	16.6	16.6	16.6
35°	1032.2	956.6	633.2	90.7	40.8	28.7	19.6	15.1	13.6	13.6	13.6
37.5°	1138.0	1042.7	595.4	57.4	33.2	22.7	15.1	12.1	10.6	10.6	10.6
40°	1246.8	1145.5	542.5	43.8	27.2	18.1	12.1	9.1	7.6	7.6	9.1
42.5°	1382.8	1264.9	482.1	37.8	22.7	15.1	9.1	6.0	4.5	6.0	6.0
45°	1520.3	1390.3	397.5	31.7	19.6	12.1	6.0	3.0	3.0	4.5	4.5
47.5°	1662.3	1523.3	308.3	27.2	16.6	9.1	4.5	1.5	1.5	3.0	3.0
50°	1808.9	1654.8	229.7	24.2	13.6	7.6	3.0	1.5	0.0	1.5	1.5
52.5°	1955.5	1781.7	178.3	21.2	12.1	6.0	1.5	0.0	0.0	0.0	1.5
55°	2091.5	1896.6	142.1	18.1	10.6	4.5	1.5	0.0	0.0	0.0	0.0
57.5°	2206.4	1981.2	113.3	16.6	9.1	3.0	1.5	0.0	0.0	0.0	0.0
60°	2315.2	2047.7	87.7	13.6	7.6	3.0	1.5	0.0	0.0	0.0	0.0
62.5°	2392.3	2073.4	71.0	12.1	6.0	3.0	0.0	0.0	0.0	0.0	0.0
64°	2425.5	2076.4	62.0	10.6	6.0	3.0	1.5	0.0	0.0	0.0	0.0
65°	2445.2	2067.4	57.4	10.6	6.0	3.0	1.5	0.0	0.0	0.0	0.0
67.5°	2449.7	2017.5	43.8	9.1	4.5	1.5	1.5	0.0	0.0	0.0	0.0
70°	2316.7	1843.7	31.7	6.0	3.0	1.5	0.0	0.0	0.0	0.0	0.0
72.5°	1935.9	1408.5	21.2	4.5	3.0	1.5	0.0	0.0	0.0	0.0	0.0
75°	1209.0	609.0	12.1	4.5	1.5	1.5	0.0	0.0	0.0	0.0	0.0
77.5°	500.2	184.4	7.6	3.0	1.5	1.5	0.0	0.0	0.0	0.0	0.0
80°	114.9	43.8	3.0	1.5	1.5	1.5	0.0	0.0	0.0	0.0	0.0
82.5°	27.2	7.6	1.5	1.5	1.5	1.5	0.0	0.0	0.0	0.0	0.0
85°	6.0	1.5	1.5	1.5	1.5	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	3.0	1.5	1.5	1.5	1.5	1.5	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)