

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: P595127

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

Issue Date: 3/22/2022

Test Information

Test Method: LM-79-08
Report Number: P595127
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-PA1C-735-U-T2R-HSS
Description: IMPACT ELITE LED TRAPEZOID 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: 5033 lumens
Efficiency: N/A
Efficacy: 104.2 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

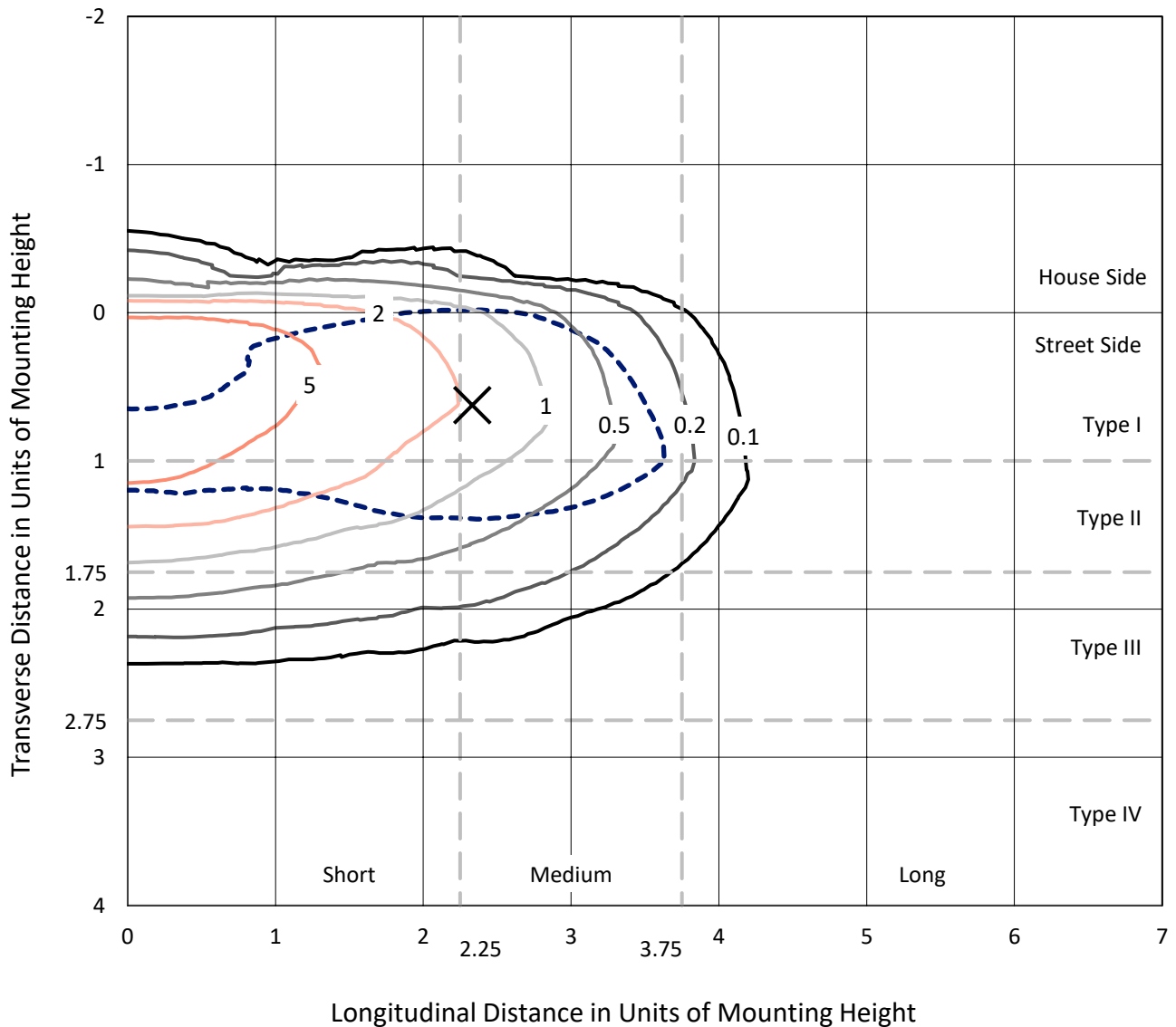
Input Watts (W): 48.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

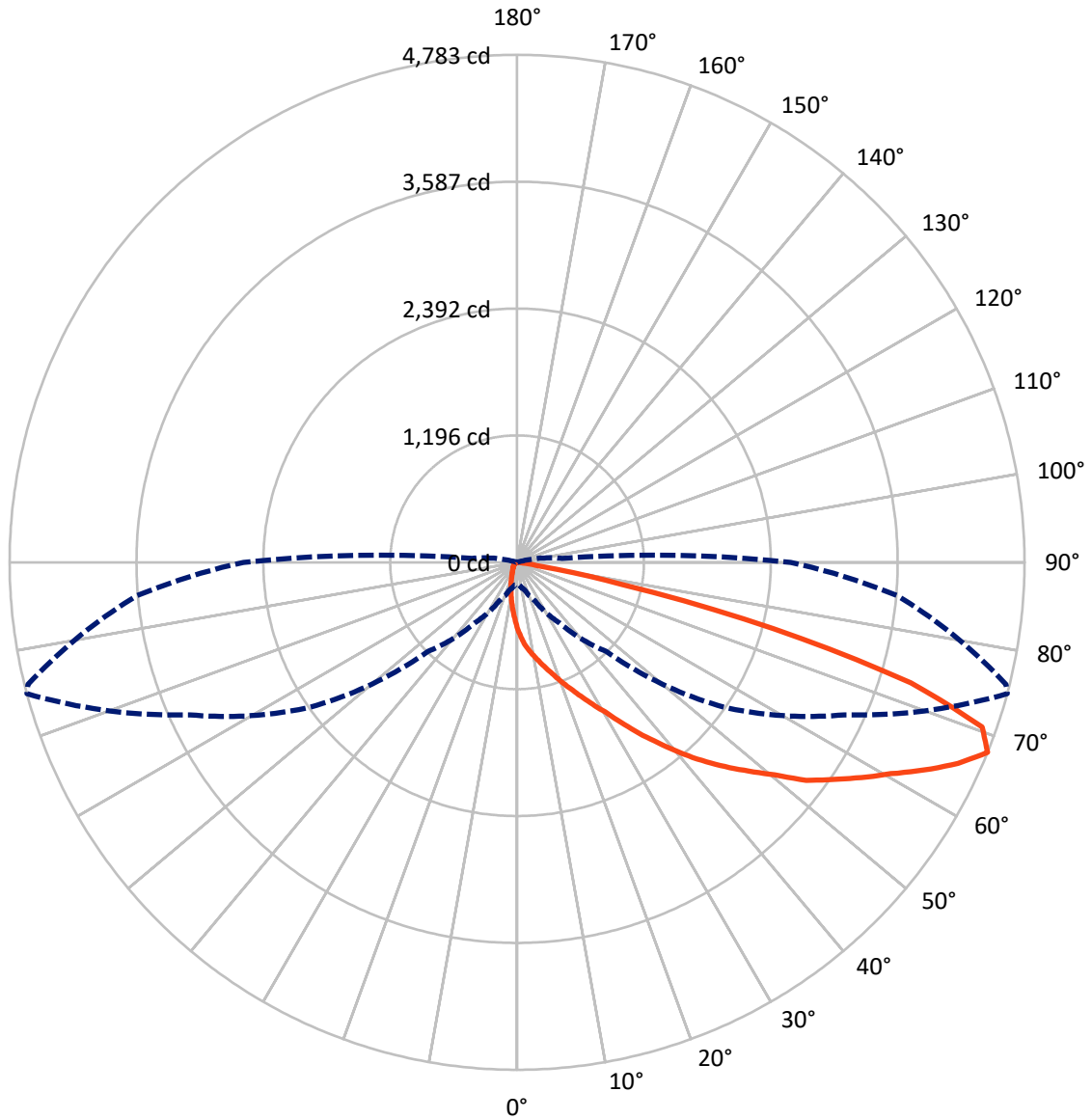
× Max cd
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 9.9 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	253.7	0.0	253.7
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	4779.3	0.0	4779.3
	% Fixture	95.0	0.0	95.0
Total	Lumens	5033.0	0.0	5033.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	56.4	1.1
10°-20°	182.1	3.6
20°-30°	366.0	7.3
30°-40°	692.2	13.8
40°-50°	1035.6	20.6
50°-60°	1195.6	23.8
60°-70°	1059.8	21.1
70°-80°	428.3	8.5
80°-90°	17.1	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°	5033.0	100.0
0°-180°	5033.0	100.0

Coefficient of Utilization

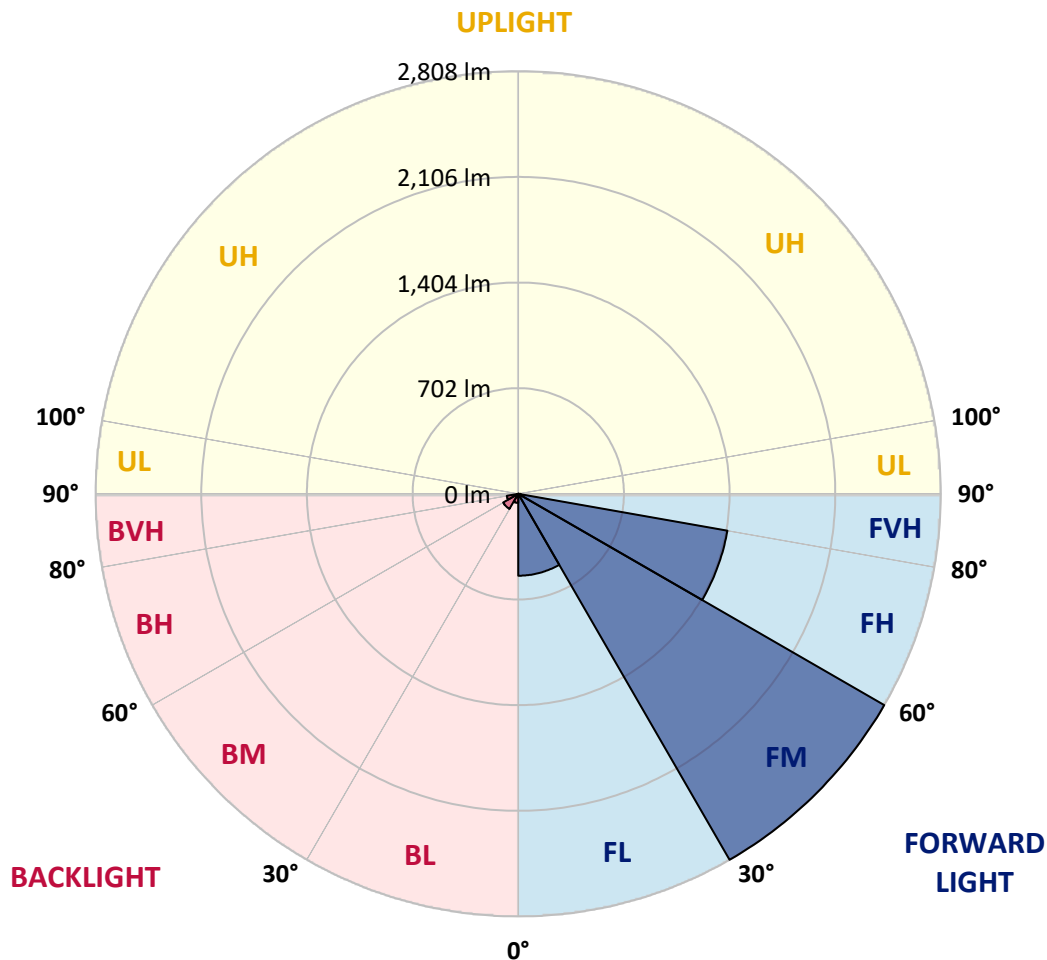


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	544.1	10.8			
FM (30°-60°)	2807.6	55.8			
FH (60°-80°)	1411.2	28.0			G1/1800
FVH (80°-90°)	16.3	0.3			G1/100
BL (0°-30°)	60.3	1.2	B0/110		
BM (30°-60°)	115.7	2.3	B0/220		
BH (60°-80°)	76.9	1.5	B0/110		G0/110
BVH (80°-90°)	0.7	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°	625.5	625.5	625.5	625.5	625.5	625.5	625.5	625.5	625.5	625.5	625.5
2.5°	870.2	873.3	867.2	853.6	841.5	812.8	790.2	749.4	705.6	705.6	652.7
5°	973.0	970.0	966.9	956.4	947.3	923.1	892.9	849.1	781.1	775.1	687.4
7.5°	1022.8	1019.8	1013.8	1009.2	1009.2	992.6	963.9	918.6	843.0	837.0	719.2
10°	1081.8	1075.7	1075.7	1063.6	1060.6	1041.0	1025.9	986.6	903.5	895.9	755.4
12.5°	1151.3	1145.2	1146.7	1136.1	1131.6	1110.5	1089.3	1051.5	968.4	960.9	797.7
15°	1190.5	1187.5	1196.6	1198.1	1201.1	1183.0	1163.3	1124.1	1041.0	1030.4	847.6
17.5°	1213.2	1213.2	1223.8	1243.4	1266.1	1255.5	1240.4	1208.7	1115.0	1108.9	900.5
20°	1257.0	1252.5	1270.6	1288.7	1317.4	1326.5	1322.0	1297.8	1204.1	1186.0	957.9
22.5°	1329.5	1323.5	1340.1	1362.8	1397.5	1400.5	1403.6	1391.5	1294.8	1276.7	1018.3
25°	1500.3	1485.1	1470.0	1467.0	1480.6	1492.7	1483.6	1492.7	1397.5	1380.9	1083.3
27.5°	1832.6	1807.0	1734.4	1654.4	1598.5	1609.0	1580.3	1596.9	1515.4	1494.2	1143.7
30°	2151.4	2125.7	2066.8	1924.8	1796.4	1739.0	1696.7	1690.6	1636.2	1612.1	1213.2
32.5°	2373.5	2356.9	2317.6	2222.4	2062.3	1915.7	1834.1	1805.4	1797.9	1760.1	1302.3
35°	2524.6	2509.5	2482.3	2405.2	2287.4	2124.2	1983.7	1920.3	1977.7	1932.3	1403.6
37.5°	2615.2	2604.7	2574.5	2521.6	2458.1	2350.8	2169.6	2068.3	2159.0	2116.7	1533.5
40°	2681.7	2654.5	2633.4	2592.6	2571.4	2536.7	2381.1	2222.4	2355.4	2311.6	1661.9
42.5°	2687.8	2675.7	2659.1	2634.9	2637.9	2660.6	2606.2	2400.7	2553.3	2512.5	1797.9
45°	2686.3	2674.2	2662.1	2637.9	2653.0	2737.6	2787.5	2588.0	2746.7	2704.4	1941.4
47.5°	2642.4	2633.4	2636.4	2636.4	2656.0	2770.9	2928.0	2778.4	2940.1	2899.3	2115.2
50°	2488.3	2497.4	2557.8	2589.6	2624.3	2772.4	3026.2	2977.8	3148.6	3119.9	2282.9
52.5°	2000.3	2051.7	2296.5	2464.2	2565.4	2742.2	3089.6	3187.8	3413.0	3369.1	2473.2
55°	1529.0	1532.0	1767.7	2157.5	2449.1	2687.8	3125.9	3329.9	3613.9	3589.7	2640.9
57.5°	1240.4	1238.9	1355.2	1705.7	2146.9	2601.6	3135.0	3434.1	3826.9	3781.6	2834.3
60°	1013.8	1007.7	1077.2	1293.3	1754.1	2399.2	3101.7	3518.7	4046.0	4029.4	3036.8
62.5°	732.8	738.8	831.0	998.7	1352.2	2026.0	3030.7	3544.4	4310.4	4293.8	3263.4
65°	421.5	439.7	540.9	719.2	1036.4	1584.9	2828.3	3524.8	4568.7	4567.2	3473.4
67.5°	211.5	213.0	267.4	401.9	696.5	1186.0	2381.1	3400.9	4783.3	4750.0	3594.3
70°	136.0	139.0	157.1	207.0	385.3	821.9	1819.0	3050.4	4648.8	4636.7	3417.5
72.5°	104.2	107.3	122.4	136.0	200.9	466.8	1231.3	2370.5	3881.3	3848.1	2665.1
75°	81.6	83.1	98.2	110.3	134.5	219.1	617.9	1477.6	2500.4	2414.3	1516.9
77.5°	65.0	66.5	74.0	87.6	102.7	122.4	182.8	664.8	1016.8	908.0	492.5
80°	42.3	43.8	55.9	68.0	87.6	80.1	71.0	191.9	217.6	196.4	87.6
82.5°	24.2	25.7	37.8	54.4	66.5	45.3	40.8	55.9	51.4	49.9	27.2
85°	7.6	7.6	25.7	37.8	30.2	13.6	25.7	19.6	16.6	15.1	9.1
87.5°	1.5	1.5	12.1	13.6	4.5	1.5	3.0	4.5	6.0	7.6	4.5
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°	625.5	625.5	625.5	625.5	625.5	625.5	625.5	625.5	625.5	625.5	625.5
2.5°	627.0	596.8	540.9	492.5	445.7	404.9	376.2	350.5	332.4	327.8	320.3
5°	631.5	572.6	465.3	374.7	296.1	232.7	196.4	172.2	160.1	152.6	152.6
7.5°	636.1	548.4	394.3	273.5	187.3	142.0	119.4	108.8	104.2	102.7	101.2
10°	645.1	530.3	333.9	196.4	128.4	107.3	98.2	93.7	90.6	89.1	89.1
12.5°	660.2	515.2	278.0	145.0	105.8	95.2	89.1	83.1	80.1	78.6	78.6
15°	679.9	504.6	229.6	116.3	96.7	86.1	78.6	72.5	68.0	66.5	66.5
17.5°	707.1	497.1	188.9	102.7	89.1	77.1	68.0	61.9	57.4	55.9	55.9
20°	734.3	497.1	155.6	95.2	81.6	68.0	58.9	51.4	46.8	45.3	45.3
22.5°	770.5	495.6	129.9	87.6	72.5	58.9	49.9	40.8	37.8	36.3	36.3
25°	800.7	495.6	111.8	80.1	63.5	51.4	40.8	33.2	30.2	28.7	28.7
27.5°	837.0	491.0	95.2	71.0	54.4	42.3	33.2	27.2	24.2	22.7	22.7
30°	868.7	485.0	84.6	63.5	46.8	34.7	27.2	21.2	19.6	19.6	19.6
32.5°	921.6	480.4	75.5	54.4	39.3	28.7	21.2	16.6	15.1	15.1	15.1
35°	985.1	480.4	69.5	46.8	33.2	24.2	16.6	13.6	12.1	12.1	12.1
37.5°	1068.2	485.0	61.9	40.8	27.2	19.6	13.6	10.6	9.1	9.1	9.1
40°	1155.8	495.6	55.9	36.3	24.2	15.1	10.6	7.6	6.0	7.6	7.6
42.5°	1260.0	506.1	49.9	31.7	19.6	12.1	7.6	4.5	3.0	4.5	4.5
45°	1362.8	516.7	46.8	27.2	16.6	9.1	4.5	3.0	1.5	3.0	3.0
47.5°	1489.7	542.4	43.8	24.2	13.6	7.6	3.0	1.5	0.0	1.5	1.5
50°	1636.2	571.1	39.3	19.6	10.6	6.0	3.0	0.0	0.0	0.0	0.0
52.5°	1776.7	595.3	34.7	16.6	9.1	4.5	1.5	0.0	0.0	0.0	0.0
55°	1917.2	610.4	30.2	13.6	7.6	4.5	1.5	0.0	0.0	0.0	0.0
57.5°	2068.3	619.4	27.2	12.1	6.0	3.0	1.5	0.0	0.0	0.0	0.0
60°	2236.0	619.4	22.7	10.6	4.5	3.0	1.5	0.0	0.0	0.0	0.0
62.5°	2421.9	601.3	21.2	9.1	4.5	3.0	1.5	0.0	0.0	0.0	0.0
65°	2572.9	536.3	18.1	7.6	4.5	3.0	1.5	0.0	0.0	0.0	0.0
67.5°	2579.0	424.5	16.6	6.0	4.5	3.0	1.5	0.0	0.0	0.0	0.0
70°	2299.5	290.1	13.6	4.5	3.0	3.0	1.5	0.0	0.0	0.0	0.0
72.5°	1720.8	155.6	12.1	4.5	3.0	1.5	1.5	0.0	0.0	0.0	0.0
75°	927.6	60.4	7.6	4.5	3.0	1.5	1.5	0.0	0.0	0.0	0.0
77.5°	270.4	30.2	4.5	3.0	3.0	1.5	1.5	0.0	0.0	0.0	0.0
80°	49.9	15.1	3.0	3.0	3.0	1.5	0.0	0.0	0.0	0.0	0.0
82.5°	13.6	6.0	1.5	1.5	1.5	1.5	0.0	0.0	0.0	0.0	0.0
85°	6.0	3.0	1.5	1.5	1.5	1.5	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)