

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: P595145

Luminaire Tested: **IST-PA1C-750-U-T2R-HSS**

Issue Date: 3/22/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P595145  
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-750-U-T2R-HSS  
Description: IMPACT ELITE LED TRAPEZOID LUMINAIRE  
(1) 70 CRI, 5000K, 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: 5403 lumens  
Efficiency: N/A  
Efficacy: 111.9 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

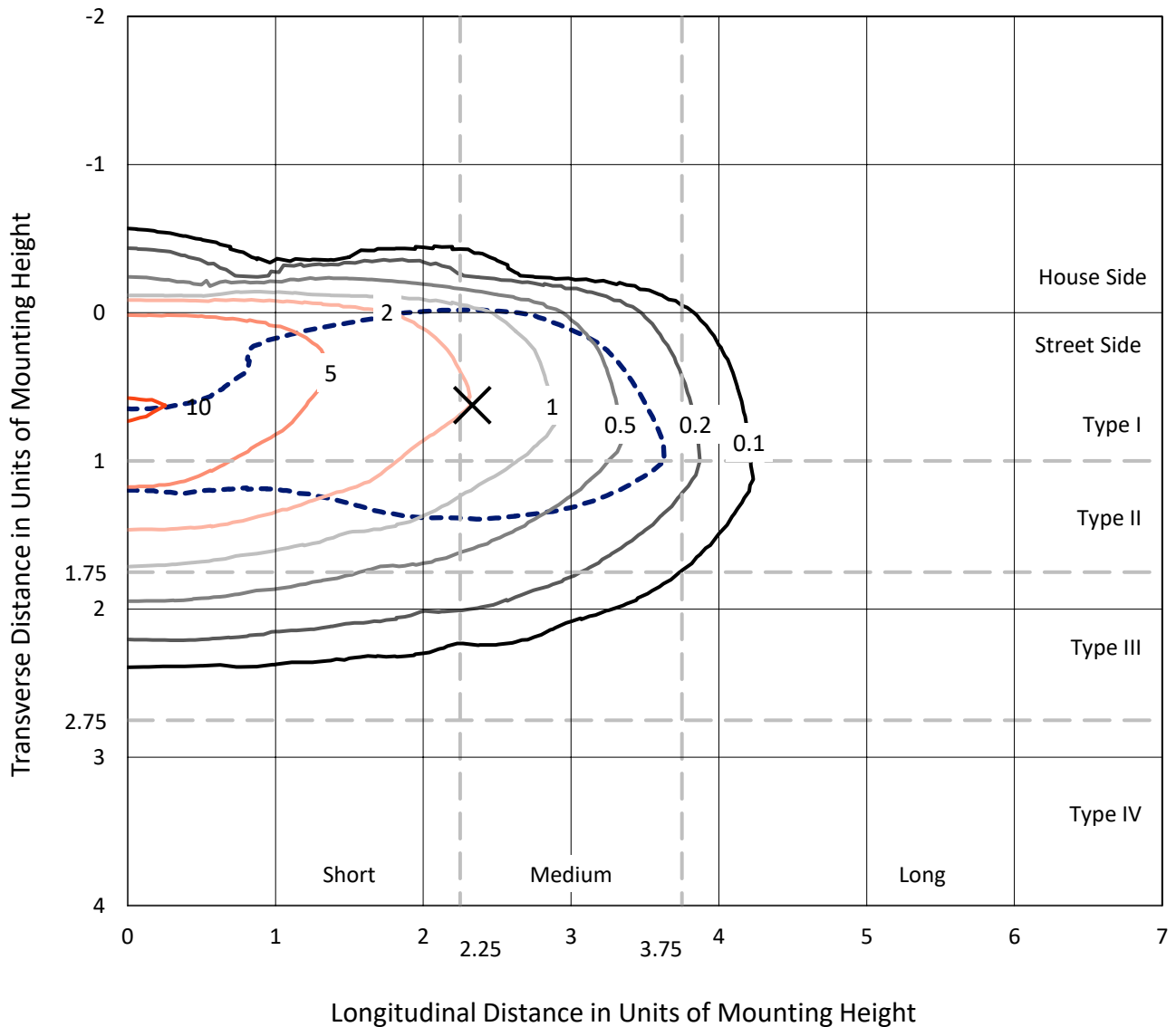
Input Watts (W): 48.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

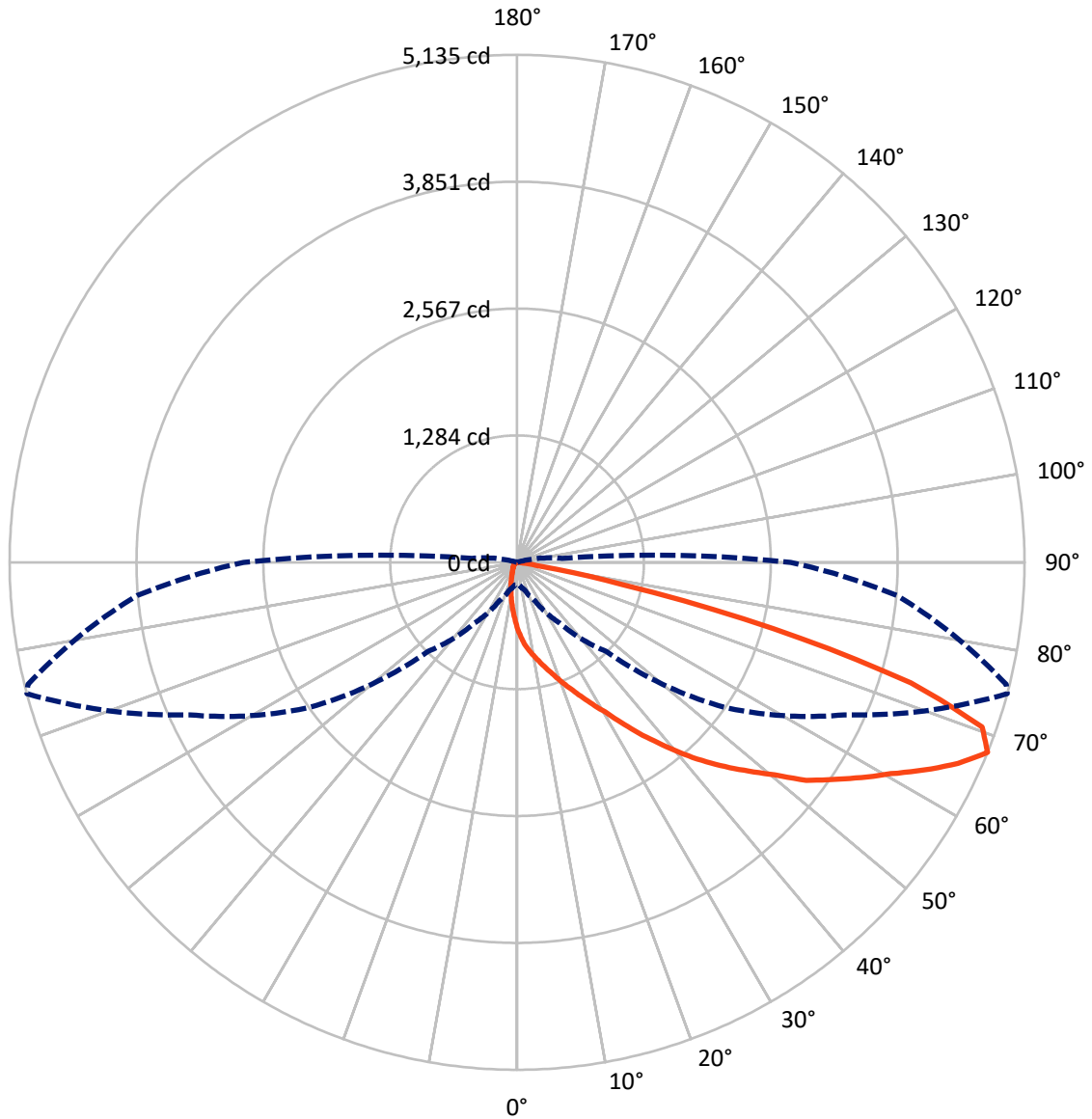
✕ Max cd  
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 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	272.4	0.0	272.4
	% Fixture	5.0	0.0	5.0
<b>Street Side</b>	Lumens	5130.6	0.0	5130.6
	% Fixture	95.0	0.0	95.0
<b>Total</b>	Lumens	5403.0	0.0	5403.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	60.6	1.1
10°-20°	195.4	3.6
20°-30°	392.9	7.3
30°-40°	743.1	13.8
40°-50°	1111.7	20.6
50°-60°	1283.5	23.8
60°-70°	1137.7	21.1
70°-80°	459.8	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°	5403.0	100.0
0°-180°	5403.0	100.0

**Coefficient of Utilization**

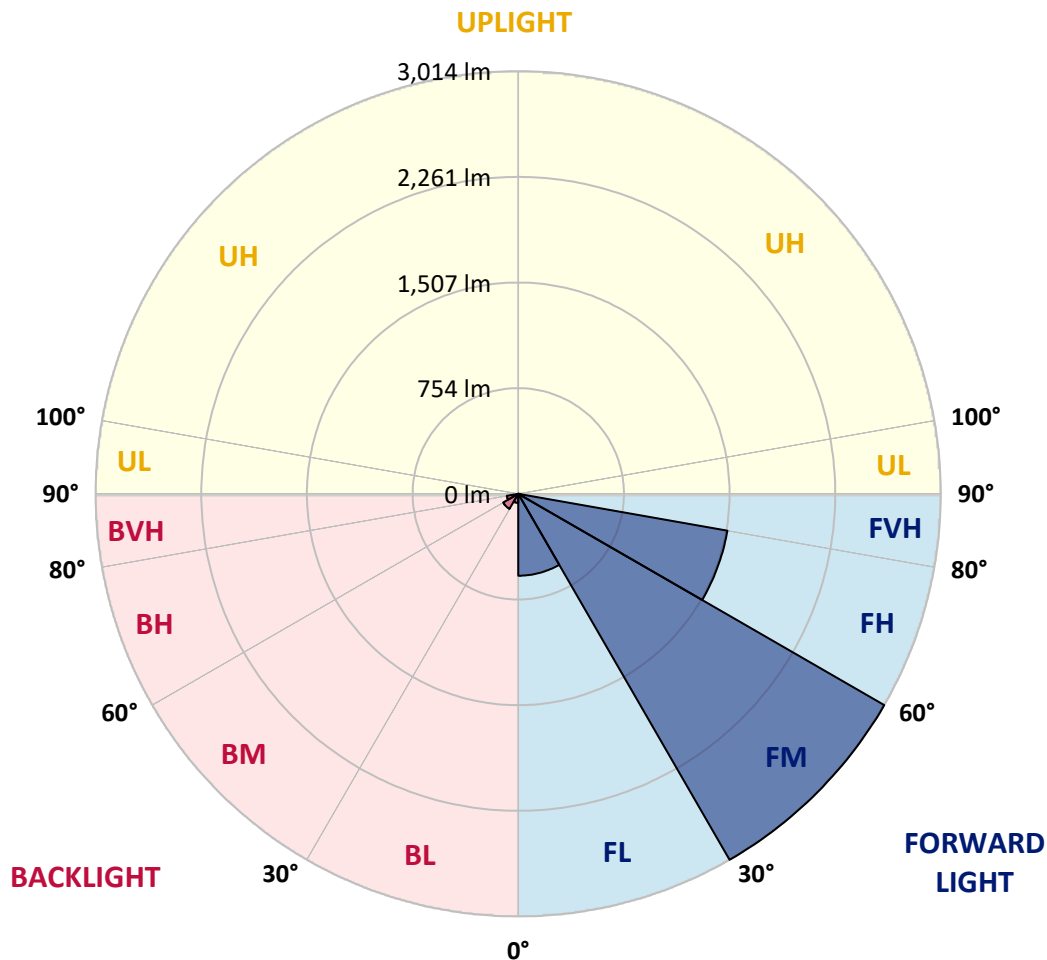


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	584.1	10.8			
FM (30°-60°)	3014.0	55.8			
FH (60°-80°)	1514.9	28.0			G1/1800
FVH (80°-90°)	17.5	0.3			G1/100
BL (0°-30°)	64.7	1.2	B0/110		
BM (30°-60°)	124.2	2.3	B0/220		
BH (60°-80°)	82.6	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°	671.5	671.5	671.5	671.5	671.5	671.5	671.5	671.5	671.5	671.5	671.5
2.5°	934.2	937.5	931.0	916.4	903.4	872.6	848.3	804.5	757.4	757.4	700.7
5°	1044.5	1041.3	1038.0	1026.7	1016.9	991.0	958.5	911.5	838.5	832.0	738.0
7.5°	1098.0	1094.8	1088.3	1083.4	1083.4	1065.6	1034.8	986.1	905.0	898.5	772.0
10°	1161.3	1154.8	1154.8	1141.8	1138.6	1117.5	1101.3	1059.1	969.9	961.8	810.9
12.5°	1235.9	1229.4	1231.0	1219.7	1214.8	1192.1	1169.4	1128.8	1039.6	1031.5	856.4
15°	1278.1	1274.8	1284.5	1286.2	1289.4	1269.9	1248.9	1206.7	1117.5	1106.1	909.9
17.5°	1302.4	1302.4	1313.7	1334.8	1359.1	1347.8	1331.6	1297.5	1197.0	1190.5	966.7
20°	1349.4	1344.6	1364.0	1383.5	1414.3	1424.0	1419.2	1393.2	1292.7	1273.2	1028.3
22.5°	1427.3	1420.8	1438.6	1463.0	1500.3	1503.5	1506.7	1493.8	1390.0	1370.5	1093.2
25°	1610.5	1594.3	1578.1	1574.9	1589.5	1602.4	1592.7	1602.4	1500.3	1482.4	1162.9
27.5°	1967.4	1939.8	1861.9	1776.0	1716.0	1727.3	1696.5	1714.3	1626.8	1604.1	1227.8
30°	2309.6	2282.0	2218.8	2066.3	1928.4	1866.8	1821.4	1814.9	1756.5	1730.6	1302.4
32.5°	2548.0	2530.2	2488.0	2385.8	2213.9	2056.6	1969.0	1938.2	1930.1	1889.5	1398.1
35°	2710.2	2694.0	2664.8	2582.1	2455.6	2280.4	2129.6	2061.4	2123.1	2074.4	1506.7
37.5°	2807.5	2796.2	2763.7	2706.9	2638.8	2523.7	2329.0	2220.4	2317.7	2272.3	1646.2
40°	2878.9	2849.7	2827.0	2783.2	2760.5	2723.2	2556.1	2385.8	2528.5	2481.5	1784.1
42.5°	2885.4	2872.4	2854.5	2828.6	2831.8	2856.2	2797.8	2577.2	2741.0	2697.2	1930.1
45°	2883.7	2870.8	2857.8	2831.8	2848.1	2938.9	2992.4	2778.3	2948.6	2903.2	2084.1
47.5°	2836.7	2827.0	2830.2	2830.2	2851.3	2974.6	3143.2	2982.7	3156.2	3112.4	2270.7
50°	2671.3	2681.0	2745.9	2779.9	2817.2	2976.2	3248.7	3196.8	3380.0	3349.2	2450.7
52.5°	2147.4	2202.5	2465.3	2645.3	2754.0	2943.7	3316.8	3422.2	3663.9	3616.8	2655.0
55°	1641.4	1644.6	1897.6	2316.1	2629.1	2885.4	3355.7	3574.7	3879.6	3853.6	2835.1
57.5°	1331.6	1330.0	1454.8	1831.1	2304.7	2792.9	3365.4	3686.6	4108.3	4059.6	3042.7
60°	1088.3	1081.8	1156.4	1388.3	1883.0	2575.6	3329.8	3777.4	4343.4	4325.6	3260.0
62.5°	786.6	793.1	892.0	1072.1	1451.6	2175.0	3253.5	3805.0	4627.3	4609.4	3503.3
65°	452.5	472.0	580.6	772.0	1112.6	1701.4	3036.2	3783.9	4904.6	4903.0	3728.7
67.5°	227.1	228.7	287.1	431.4	747.7	1273.2	2556.1	3650.9	5134.9	5099.2	3858.5
70°	146.0	149.2	168.7	222.2	413.6	882.3	1952.8	3274.6	4990.6	4977.6	3668.7
72.5°	111.9	115.2	131.4	146.0	215.7	501.2	1321.8	2544.8	4166.7	4131.0	2861.0
75°	87.6	89.2	105.4	118.4	144.3	235.2	663.4	1586.2	2684.2	2591.8	1628.4
77.5°	69.7	71.4	79.5	94.1	110.3	131.4	196.2	713.6	1091.5	974.8	528.7
80°	45.4	47.0	60.0	73.0	94.1	86.0	76.2	206.0	233.6	210.8	94.1
82.5°	26.0	27.6	40.5	58.4	71.4	48.7	43.8	60.0	55.1	53.5	29.2
85°	8.1	8.1	27.6	40.5	32.4	14.6	27.6	21.1	17.8	16.2	9.7
87.5°	1.6	1.6	13.0	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°	671.5	671.5	671.5	671.5	671.5	671.5	671.5	671.5	671.5	671.5	671.5
2.5°	673.1	640.6	580.6	528.7	478.5	434.7	403.9	376.3	356.8	352.0	343.8
5°	678.0	614.7	499.5	402.2	317.9	249.8	210.8	184.9	171.9	163.8	163.8
7.5°	682.8	588.7	423.3	293.6	201.1	152.5	128.1	116.8	111.9	110.3	108.7
10°	692.6	569.3	358.4	210.8	137.9	115.2	105.4	100.6	97.3	95.7	95.7
12.5°	708.8	553.1	298.4	155.7	113.5	102.2	95.7	89.2	86.0	84.3	84.3
15°	729.9	541.7	246.5	124.9	103.8	92.4	84.3	77.9	73.0	71.4	71.4
17.5°	759.0	533.6	202.7	110.3	95.7	82.7	73.0	66.5	61.6	60.0	60.0
20°	788.2	533.6	167.1	102.2	87.6	73.0	63.3	55.1	50.3	48.7	48.7
22.5°	827.2	532.0	139.5	94.1	77.9	63.3	53.5	43.8	40.5	38.9	38.9
25°	859.6	532.0	120.0	86.0	68.1	55.1	43.8	35.7	32.4	30.8	30.8
27.5°	898.5	527.1	102.2	76.2	58.4	45.4	35.7	29.2	26.0	24.3	24.3
30°	932.6	520.6	90.8	68.1	50.3	37.3	29.2	22.7	21.1	21.1	21.1
32.5°	989.4	515.8	81.1	58.4	42.2	30.8	22.7	17.8	16.2	16.2	16.2
35°	1057.5	515.8	74.6	50.3	35.7	26.0	17.8	14.6	13.0	13.0	13.0
37.5°	1146.7	520.6	66.5	43.8	29.2	21.1	14.6	11.4	9.7	9.7	9.7
40°	1240.8	532.0	60.0	38.9	26.0	16.2	11.4	8.1	6.5	8.1	8.1
42.5°	1352.7	543.3	53.5	34.1	21.1	13.0	8.1	4.9	3.2	4.9	4.9
45°	1463.0	554.7	50.3	29.2	17.8	9.7	4.9	3.2	1.6	3.2	3.2
47.5°	1599.2	582.3	47.0	26.0	14.6	8.1	3.2	1.6	0.0	1.6	1.6
50°	1756.5	613.1	42.2	21.1	11.4	6.5	3.2	0.0	0.0	0.0	0.0
52.5°	1907.4	639.0	37.3	17.8	9.7	4.9	1.6	0.0	0.0	0.0	0.0
55°	2058.2	655.2	32.4	14.6	8.1	4.9	1.6	0.0	0.0	0.0	0.0
57.5°	2220.4	665.0	29.2	13.0	6.5	3.2	1.6	0.0	0.0	0.0	0.0
60°	2400.4	665.0	24.3	11.4	4.9	3.2	1.6	0.0	0.0	0.0	0.0
62.5°	2599.9	645.5	22.7	9.7	4.9	3.2	1.6	0.0	0.0	0.0	0.0
65°	2762.1	575.8	19.5	8.1	4.9	3.2	1.6	0.0	0.0	0.0	0.0
67.5°	2768.6	455.8	17.8	6.5	4.9	3.2	1.6	0.0	0.0	0.0	0.0
70°	2468.5	311.4	14.6	4.9	3.2	3.2	1.6	0.0	0.0	0.0	0.0
72.5°	1847.3	167.1	13.0	4.9	3.2	1.6	1.6	0.0	0.0	0.0	0.0
75°	995.8	64.9	8.1	4.9	3.2	1.6	1.6	0.0	0.0	0.0	0.0
77.5°	290.3	32.4	4.9	3.2	3.2	1.6	1.6	0.0	0.0	0.0	0.0
80°	53.5	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)