

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: P595163

Luminaire Tested: **IST-PA1C-827-U-T2R-HSS**

Issue Date: 3/22/2022

Test Information

Test Method: LM-79-08
Report Number: P595163
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-827-U-T2R-HSS
Description: IMPACT ELITE LED TRAPEZOID LUMINAIRE
(1) 80 CRI, 2700K, 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: 3972 lumens
Efficiency: N/A
Efficacy: 82.2 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

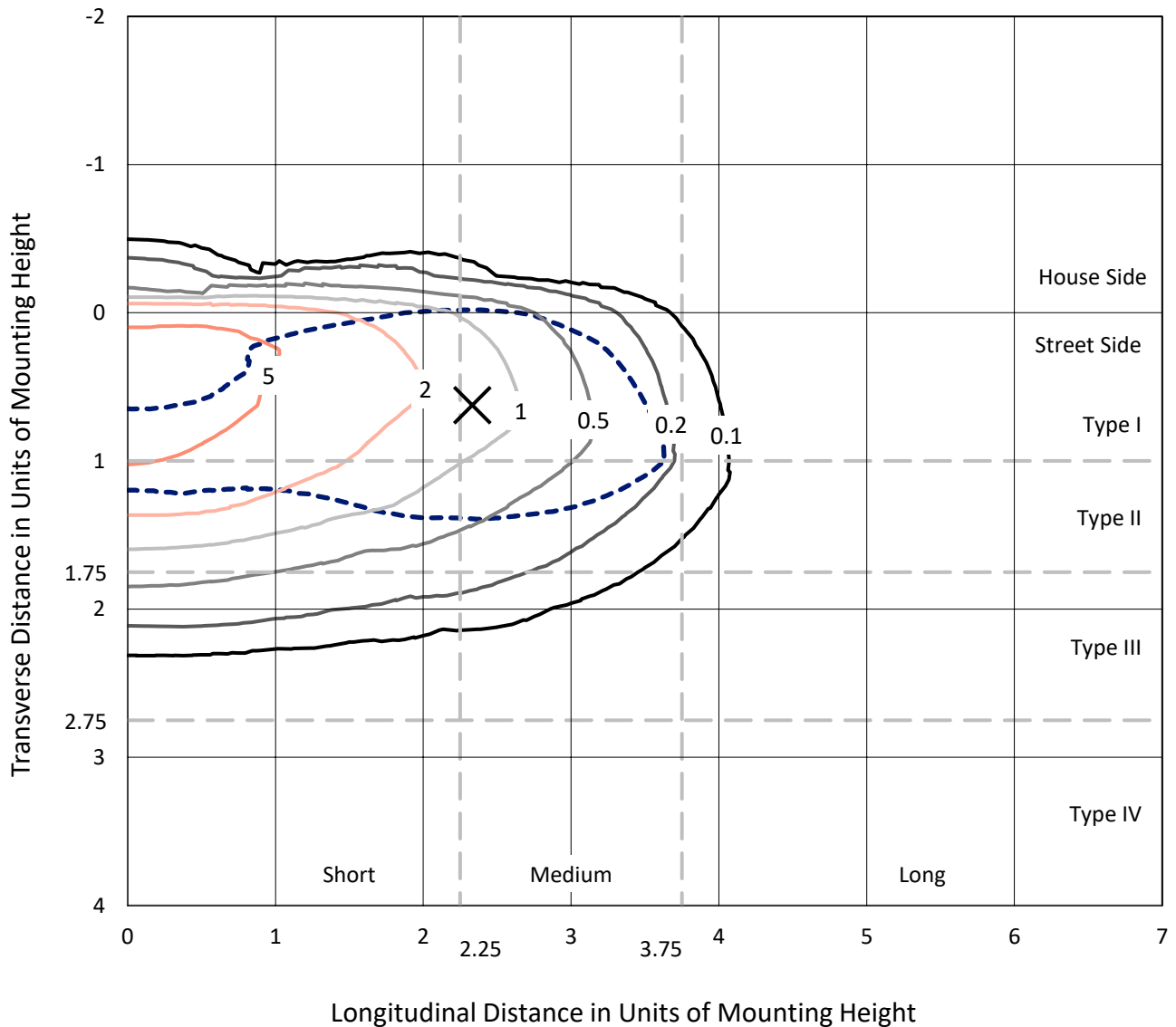
Input Watts (W): 48.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

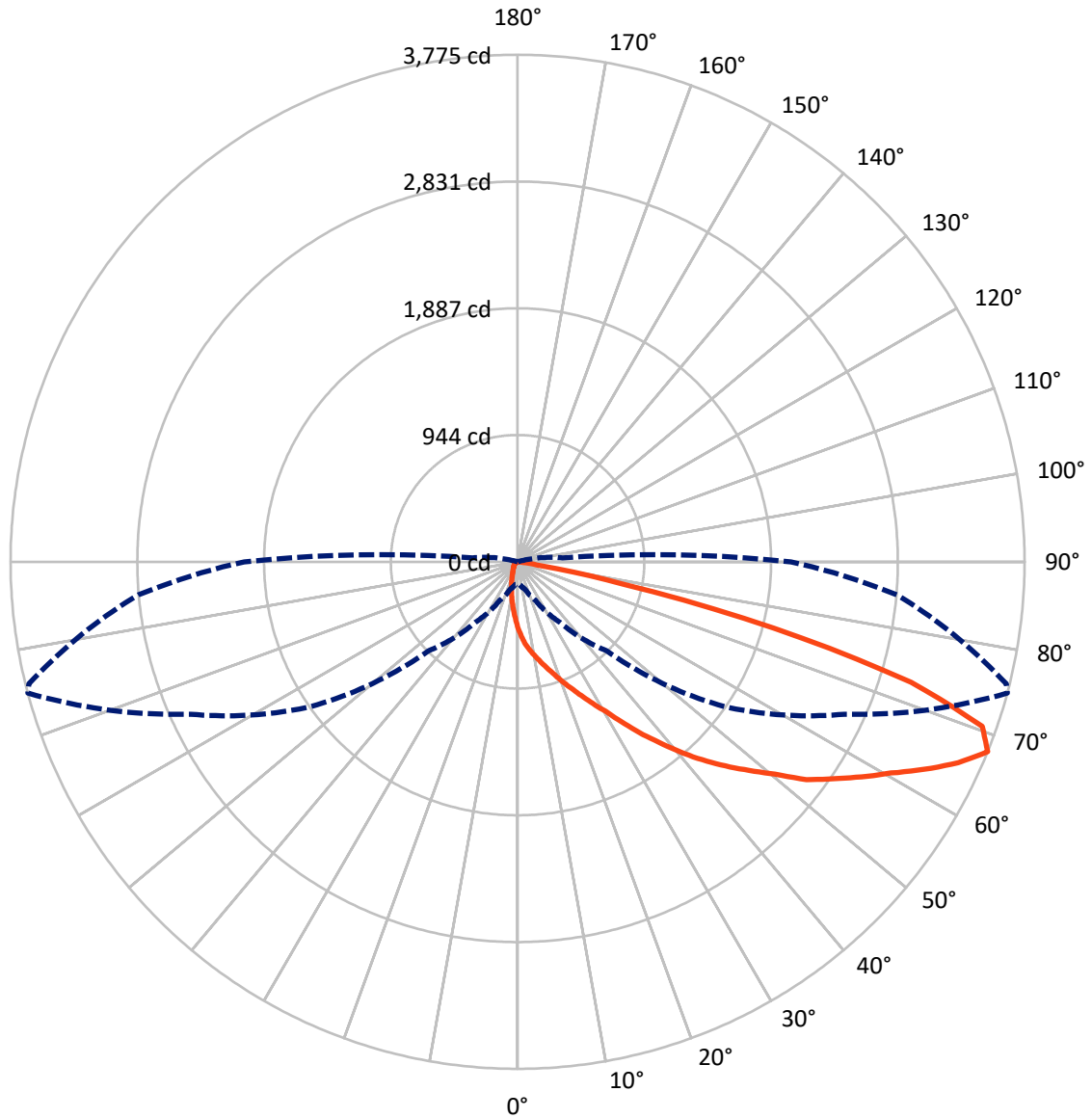
✕ Max cd
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 7.8 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	200.3	0.0	200.3
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	3771.8	0.0	3771.8
	% Fixture	95.0	0.0	95.0
Total	Lumens	3972.0	0.0	3972.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	44.5	1.1
10°-20°	143.7	3.6
20°-30°	288.8	7.3
30°-40°	546.3	13.8
40°-50°	817.2	20.6
50°-60°	943.5	23.8
60°-70°	836.4	21.1
70°-80°	338.1	8.5
80°-90°	13.5	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°	3972.0	100.0
0°-180°	3972.0	100.0

Coefficient of Utilization

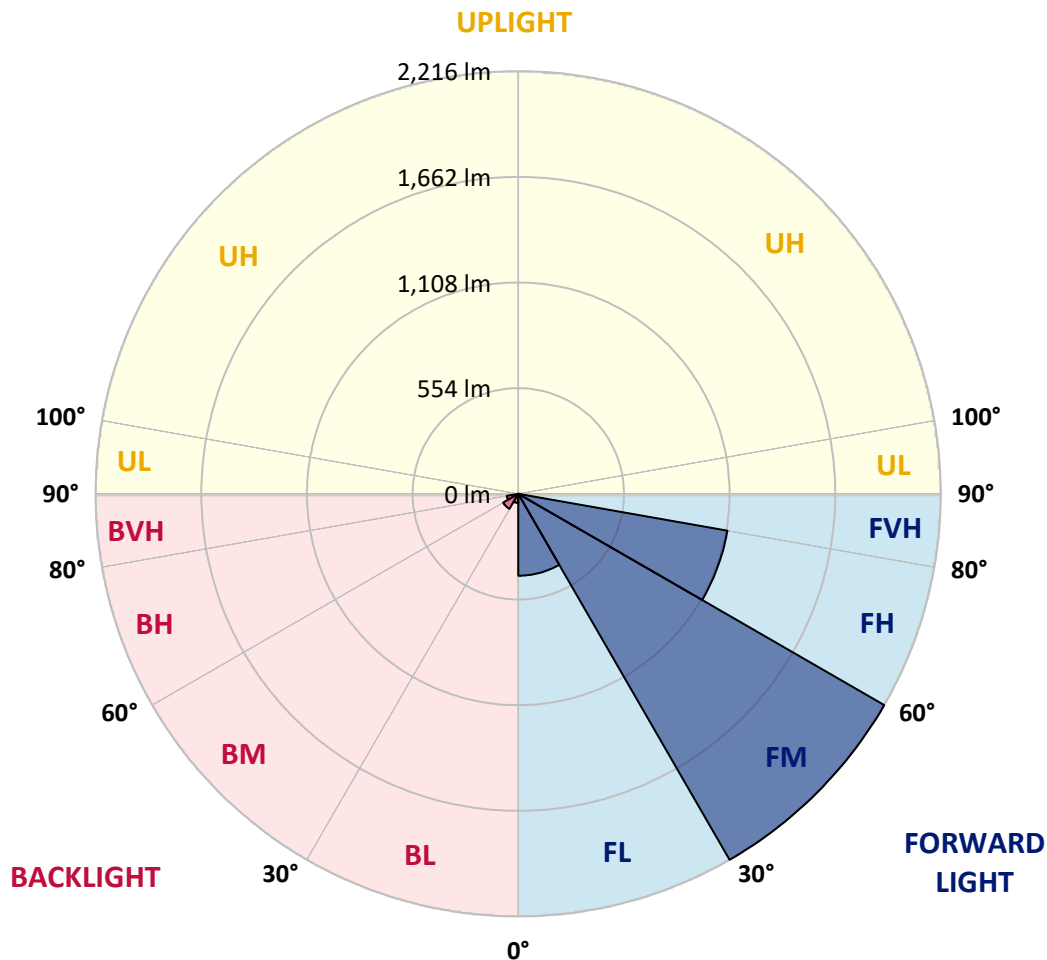


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	429.4	10.8			
FM (30°-60°)	2215.7	55.8			
FH (60°-80°)	1113.7	28.0			G1/1800
FVH (80°-90°)	12.9	0.3			G1/100
BL (0°-30°)	47.6	1.2	B0/110		
BM (30°-60°)	91.3	2.3	B0/220		
BH (60°-80°)	60.7	1.5	B0/110		G0/110
BVH (80°-90°)	0.6	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°	493.6	493.6	493.6	493.6	493.6	493.6	493.6	493.6	493.6	493.6	493.6
2.5°	686.8	689.2	684.4	673.7	664.1	641.5	623.6	591.4	556.8	556.8	515.1
5°	767.9	765.5	763.1	754.7	747.6	728.5	704.7	670.1	616.4	611.7	542.5
7.5°	807.2	804.8	800.1	796.5	796.5	783.4	760.7	724.9	665.3	660.6	567.6
10°	853.7	848.9	848.9	839.4	837.0	821.5	809.6	778.6	713.0	707.1	596.2
12.5°	908.6	903.8	905.0	896.6	893.1	876.4	859.7	829.9	764.3	758.3	629.6
15°	939.6	937.2	944.3	945.5	947.9	933.6	918.1	887.1	821.5	813.2	668.9
17.5°	957.4	957.4	965.8	981.3	999.2	990.8	978.9	953.9	879.9	875.2	710.6
20°	992.0	988.4	1002.8	1017.1	1039.7	1046.9	1043.3	1024.2	950.3	936.0	755.9
22.5°	1049.3	1044.5	1057.6	1075.5	1102.9	1105.3	1107.7	1098.1	1021.8	1007.5	803.6
25°	1184.0	1172.1	1160.1	1157.8	1168.5	1178.0	1170.9	1178.0	1102.9	1089.8	854.9
27.5°	1446.3	1426.0	1368.8	1305.6	1261.5	1269.8	1247.2	1260.3	1195.9	1179.2	902.6
30°	1697.9	1677.6	1631.1	1519.0	1417.7	1372.4	1339.0	1334.2	1291.3	1272.2	957.4
32.5°	1873.2	1860.0	1829.0	1753.9	1627.5	1511.9	1447.5	1424.8	1418.9	1389.1	1027.8
35°	1992.4	1980.5	1959.0	1898.2	1805.2	1676.4	1565.5	1515.5	1560.8	1525.0	1107.7
37.5°	2063.9	2055.6	2031.7	1990.0	1939.9	1855.3	1712.2	1632.3	1703.8	1670.5	1210.2
40°	2116.4	2094.9	2078.2	2046.0	2029.4	2001.9	1879.1	1753.9	1858.8	1824.3	1311.6
42.5°	2121.2	2111.6	2098.5	2079.4	2081.8	2099.7	2056.8	1894.6	2015.0	1982.8	1418.9
45°	2120.0	2110.4	2100.9	2081.8	2093.7	2160.5	2199.9	2042.5	2167.7	2134.3	1532.1
47.5°	2085.4	2078.2	2080.6	2080.6	2096.1	2186.7	2310.7	2192.7	2320.3	2288.1	1669.3
50°	1963.8	1970.9	2018.6	2043.7	2071.1	2187.9	2388.2	2350.1	2484.8	2462.2	1801.6
52.5°	1578.6	1619.2	1812.3	1944.7	2024.6	2164.1	2438.3	2515.8	2693.5	2658.9	1951.8
55°	1206.6	1209.0	1395.0	1702.7	1932.8	2121.2	2466.9	2627.9	2852.1	2833.0	2084.2
57.5°	978.9	977.7	1069.5	1346.1	1694.3	2053.2	2474.1	2710.2	3020.2	2984.4	2236.8
60°	800.1	795.3	850.1	1020.6	1384.3	1893.4	2447.9	2776.9	3193.1	3180.0	2396.6
62.5°	578.3	583.1	655.8	788.1	1067.1	1598.9	2391.8	2797.2	3401.7	3388.6	2575.4
65°	332.7	347.0	426.9	567.6	817.9	1250.8	2232.0	2781.7	3605.6	3604.4	2741.2
67.5°	166.9	168.1	211.0	317.2	549.7	936.0	1879.1	2683.9	3774.9	3748.7	2836.6
70°	107.3	109.7	124.0	163.3	304.0	648.6	1435.6	2407.3	3668.8	3659.3	2697.1
72.5°	82.3	84.7	96.6	107.3	158.6	368.4	971.8	1870.8	3063.1	3036.9	2103.3
75°	64.4	65.6	77.5	87.0	106.1	172.9	487.7	1166.1	1973.3	1905.3	1197.1
77.5°	51.3	52.5	58.4	69.2	81.1	96.6	144.3	524.6	802.4	716.6	388.7
80°	33.4	34.6	44.1	53.7	69.2	63.2	56.0	151.4	171.7	155.0	69.2
82.5°	19.1	20.3	29.8	42.9	52.5	35.8	32.2	44.1	40.5	39.3	21.5
85°	6.0	6.0	20.3	29.8	23.8	10.7	20.3	15.5	13.1	11.9	7.2
87.5°	1.2	1.2	9.5	10.7	3.6	1.2	2.4	3.6	4.8	6.0	3.6
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°	493.6	493.6	493.6	493.6	493.6	493.6	493.6	493.6	493.6	493.6	493.6
2.5°	494.8	471.0	426.9	388.7	351.7	319.5	296.9	276.6	262.3	258.7	252.8
5°	498.4	451.9	367.2	295.7	233.7	183.6	155.0	135.9	126.4	120.4	120.4
7.5°	502.0	432.8	311.2	215.8	147.8	112.1	94.2	85.8	82.3	81.1	79.9
10°	509.1	418.5	263.5	155.0	101.3	84.7	77.5	73.9	71.5	70.3	70.3
12.5°	521.0	406.6	219.4	114.5	83.5	75.1	70.3	65.6	63.2	62.0	62.0
15°	536.5	398.2	181.2	91.8	76.3	68.0	62.0	57.2	53.7	52.5	52.5
17.5°	558.0	392.3	149.0	81.1	70.3	60.8	53.7	48.9	45.3	44.1	44.1
20°	579.5	392.3	122.8	75.1	64.4	53.7	46.5	40.5	37.0	35.8	35.8
22.5°	608.1	391.1	102.5	69.2	57.2	46.5	39.3	32.2	29.8	28.6	28.6
25°	631.9	391.1	88.2	63.2	50.1	40.5	32.2	26.2	23.8	22.7	22.7
27.5°	660.6	387.5	75.1	56.0	42.9	33.4	26.2	21.5	19.1	17.9	17.9
30°	685.6	382.7	66.8	50.1	37.0	27.4	21.5	16.7	15.5	15.5	15.5
32.5°	727.3	379.2	59.6	42.9	31.0	22.7	16.7	13.1	11.9	11.9	11.9
35°	777.4	379.2	54.8	37.0	26.2	19.1	13.1	10.7	9.5	9.5	9.5
37.5°	843.0	382.7	48.9	32.2	21.5	15.5	10.7	8.3	7.2	7.2	7.2
40°	912.1	391.1	44.1	28.6	19.1	11.9	8.3	6.0	4.8	6.0	6.0
42.5°	994.4	399.4	39.3	25.0	15.5	9.5	6.0	3.6	2.4	3.6	3.6
45°	1075.5	407.8	37.0	21.5	13.1	7.2	3.6	2.4	1.2	2.4	2.4
47.5°	1175.6	428.0	34.6	19.1	10.7	6.0	2.4	1.2	0.0	1.2	1.2
50°	1291.3	450.7	31.0	15.5	8.3	4.8	2.4	0.0	0.0	0.0	0.0
52.5°	1402.2	469.8	27.4	13.1	7.2	3.6	1.2	0.0	0.0	0.0	0.0
55°	1513.1	481.7	23.8	10.7	6.0	3.6	1.2	0.0	0.0	0.0	0.0
57.5°	1632.3	488.9	21.5	9.5	4.8	2.4	1.2	0.0	0.0	0.0	0.0
60°	1764.7	488.9	17.9	8.3	3.6	2.4	1.2	0.0	0.0	0.0	0.0
62.5°	1911.3	474.5	16.7	7.2	3.6	2.4	1.2	0.0	0.0	0.0	0.0
65°	2030.5	423.3	14.3	6.0	3.6	2.4	1.2	0.0	0.0	0.0	0.0
67.5°	2035.3	335.0	13.1	4.8	3.6	2.4	1.2	0.0	0.0	0.0	0.0
70°	1814.7	228.9	10.7	3.6	2.4	2.4	1.2	0.0	0.0	0.0	0.0
72.5°	1358.1	122.8	9.5	3.6	2.4	1.2	1.2	0.0	0.0	0.0	0.0
75°	732.1	47.7	6.0	3.6	2.4	1.2	1.2	0.0	0.0	0.0	0.0
77.5°	213.4	23.8	3.6	2.4	2.4	1.2	1.2	0.0	0.0	0.0	0.0
80°	39.3	11.9	2.4	2.4	2.4	1.2	0.0	0.0	0.0	0.0	0.0
82.5°	10.7	4.8	1.2	1.2	1.2	1.2	0.0	0.0	0.0	0.0	0.0
85°	4.8	2.4	1.2	1.2	1.2	1.2	0.0	0.0	0.0	0.0	0.0
87.5°	2.4	1.2	1.2	1.2	1.2	1.2	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)