

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: P595232

Luminaire Tested: **IST-PA1D-750-U-T4W-HSS**

Issue Date: 3/22/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P595232  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2201-510-13)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/22/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: IST-PA1D-750-U-T4W-HSS  
Description: IMPACT ELITE LED TRAPEZOID LUMINAIRE  
(1) 70 CRI, 5000K, 800mA LIGHT ENGINE WITH 24 LEDS AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5980 lumens  
Efficiency: N/A  
Efficacy: 95.8 lumens/watt  
Luminous Opening: Rectangular (W 0.75' x L: 0.5' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B1 - U0 - G2

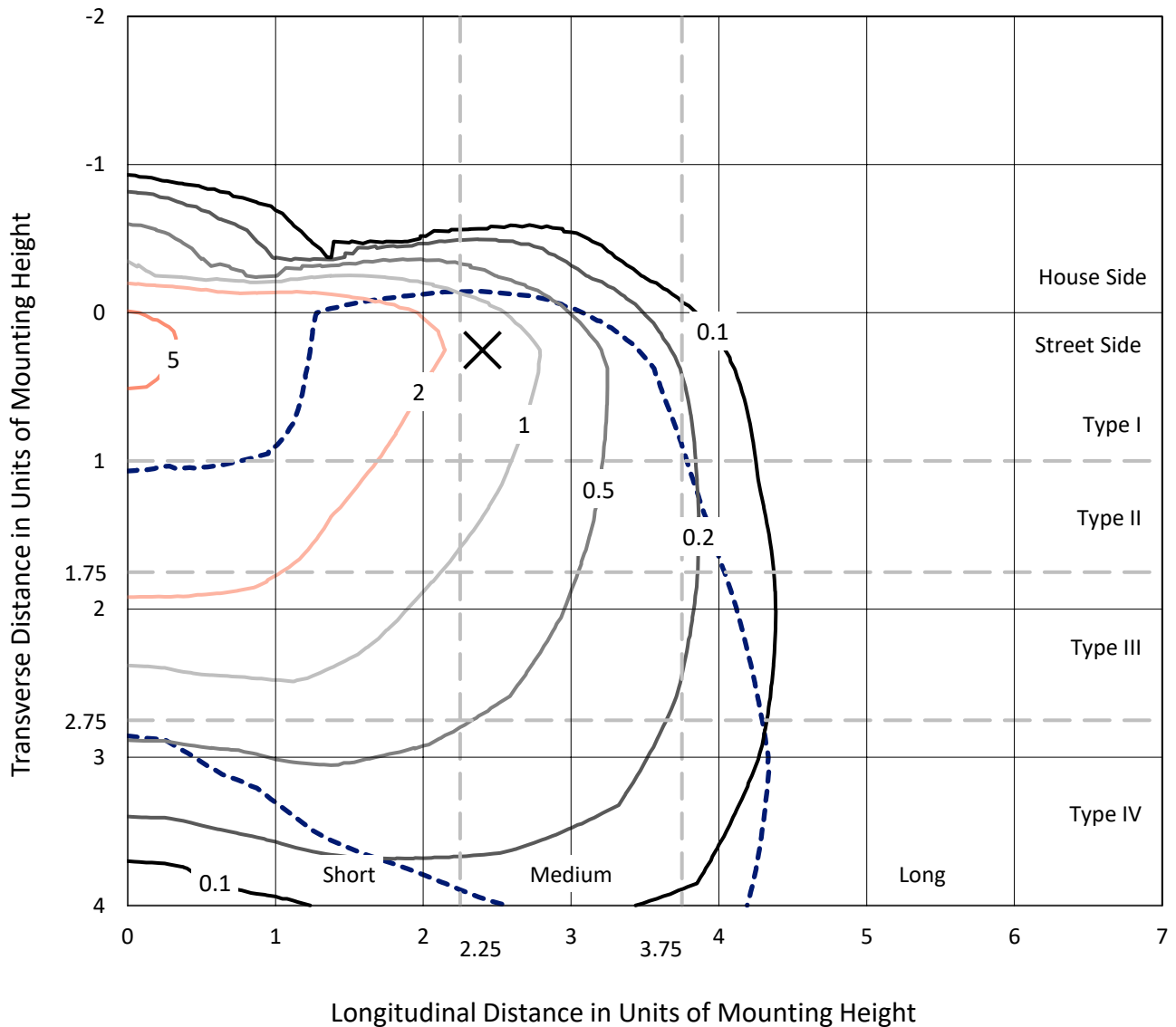
Input Watts (W): 62.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

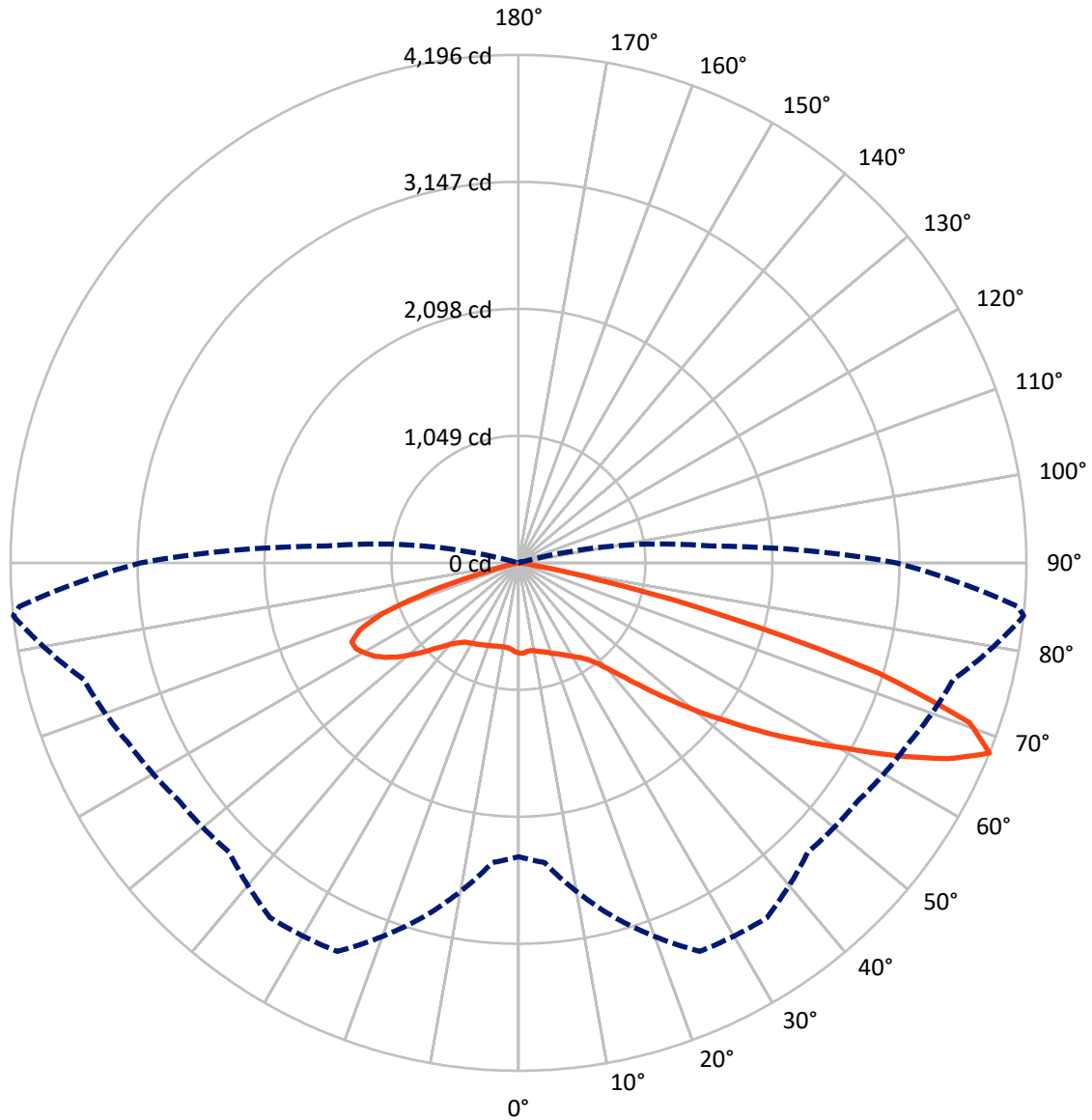
✕ Max cd  
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 6.1 fc  
 Type IV - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 84-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	520.6	0.0	520.6
	% Fixture	8.7	0.0	8.7
<b>Street Side</b>	Lumens	5459.3	0.0	5459.3
	% Fixture	91.3	0.0	91.3
<b>Total</b>	Lumens	5980.0	0.0	5980.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	66.8	1.1
10°-20°	174.7	2.9
20°-30°	279.8	4.7
30°-40°	402.7	6.7
40°-50°	691.2	11.6
50°-60°	1207.7	20.2
60°-70°	1729.5	28.9
70°-80°	1299.9	21.7
80°-90°	127.6	2.1
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°	5980.0	100.0
0°-180°	5980.0	100.0

**Coefficient of Utilization**

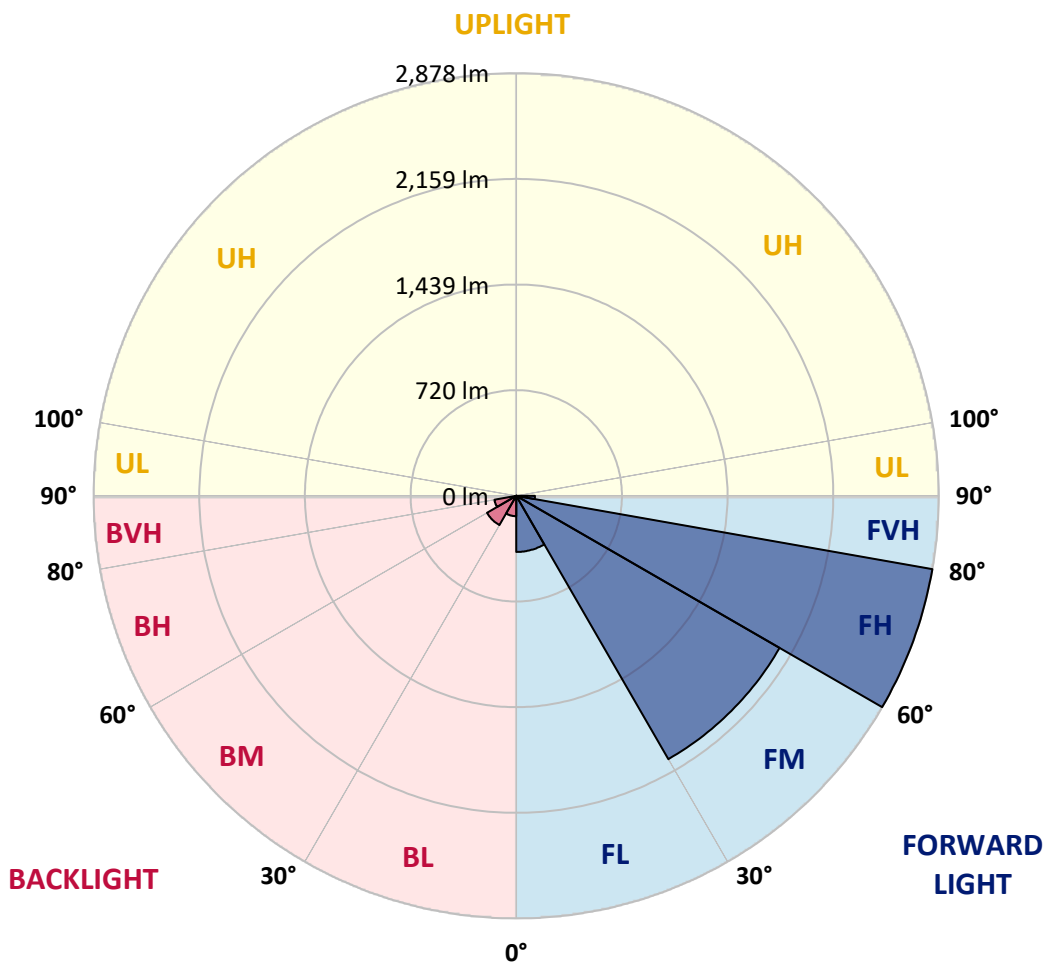


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	382.3	6.4			
FM (30°-60°)	2071.4	34.6			
FH (60°-80°)	2878.4	48.1			G2/5000
FVH (80°-90°)	127.2	2.1			G2/225
BL (0°-30°)	139.0	2.3	B1/500		
BM (30°-60°)	230.2	3.9	B1/1000		
BH (60°-80°)	150.9	2.5	B1/500		G1/500
BVH (80°-90°)	0.4	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 IV Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	84°	85°
0°	745.0	745.0	745.0	745.0	745.0	745.0	745.0	745.0	745.0	745.0	745.0
2.5°	787.4	791.5	793.5	783.4	783.4	775.3	763.2	759.2	753.1	747.1	745.0
5°	827.8	833.9	831.9	819.7	813.7	797.5	781.4	765.2	749.1	734.9	734.9
7.5°	874.3	876.3	870.2	850.0	837.9	815.7	791.5	773.3	753.1	732.9	728.9
10°	914.6	912.6	904.5	884.4	862.1	833.9	807.6	787.4	763.2	739.0	737.0
12.5°	942.9	944.9	934.8	906.6	884.4	852.0	825.8	805.6	777.3	751.1	745.0
15°	967.1	973.2	961.1	932.8	900.5	872.2	852.0	825.8	793.5	763.2	759.2
17.5°	989.3	991.4	981.3	949.0	918.7	894.4	872.2	848.0	815.7	777.3	773.3
20°	1001.5	1007.5	1001.5	961.1	932.8	914.6	896.5	872.2	835.9	799.6	795.5
22.5°	1009.5	1015.6	1013.6	969.2	944.9	930.8	914.6	892.4	858.1	815.7	811.7
25°	1013.6	1017.6	1021.6	977.2	957.0	951.0	936.8	916.7	884.4	839.9	835.9
27.5°	1019.6	1023.7	1027.7	987.3	979.2	973.2	969.2	953.0	914.6	868.2	862.1
30°	1029.7	1035.8	1039.8	1005.5	1005.5	1011.6	1011.6	989.3	946.9	898.5	894.4
32.5°	1041.8	1043.9	1051.9	1023.7	1033.8	1047.9	1043.9	1021.6	977.2	932.8	926.8
35°	1074.1	1074.1	1088.3	1051.9	1064.0	1076.2	1080.2	1064.0	1023.7	979.2	977.2
37.5°	1152.9	1152.9	1165.0	1106.4	1104.4	1116.5	1130.7	1130.7	1090.3	1049.9	1045.9
40°	1330.6	1330.6	1330.6	1195.3	1173.1	1187.2	1209.4	1221.5	1187.2	1158.9	1158.9
42.5°	1627.4	1629.4	1599.1	1358.8	1263.9	1288.2	1312.4	1338.6	1320.5	1300.3	1296.2
45°	1934.3	1924.2	1920.1	1599.1	1425.5	1413.3	1443.6	1488.1	1494.1	1482.0	1490.1
47.5°	2144.2	2154.3	2160.4	1897.9	1651.6	1568.8	1597.1	1659.7	1696.0	1694.0	1706.1
50°	2348.2	2354.2	2360.3	2227.0	1950.4	1764.7	1782.8	1867.6	1918.1	1934.3	1942.3
52.5°	2525.9	2509.7	2535.9	2517.8	2267.4	1988.8	1988.8	2085.7	2176.6	2182.6	2180.6
55°	2578.3	2588.4	2667.2	2721.7	2592.5	2263.4	2223.0	2326.0	2422.9	2473.4	2473.4
57.5°	2695.5	2705.6	2800.4	2923.6	2828.7	2533.9	2473.4	2574.3	2679.3	2776.2	2790.4
60°	2848.9	2850.9	2951.9	3139.7	3008.4	2778.2	2727.8	2842.8	2947.8	3113.4	3159.8
62.5°	2931.7	2939.8	3079.1	3325.4	3234.5	2992.3	2980.1	3085.1	3220.4	3511.2	3553.6
65°	2804.5	2857.0	3159.8	3436.5	3418.3	3192.1	3234.5	3319.3	3474.8	3900.8	3941.2
67.5°	2426.9	2485.5	3026.6	3541.4	3577.8	3379.9	3424.3	3547.5	3719.1	4195.6	4139.1
70°	2235.1	2283.6	2703.5	3600.0	3711.0	3589.9	3610.1	3725.2	3775.7	3949.3	3888.7
72.5°	1694.0	1744.5	2287.6	3400.1	3826.1	3810.0	3759.5	3664.6	3365.8	3107.3	2960.0
75°	749.1	807.6	1522.4	2657.1	3541.4	3935.2	3668.6	3137.6	2416.8	1764.7	1635.4
77.5°	331.1	365.5	589.6	1475.9	2661.1	3406.2	2901.4	2091.8	1213.5	656.2	609.8
80°	107.0	111.0	185.8	516.9	1360.9	2255.3	1776.8	1005.5	373.5	153.4	143.4
82.5°	42.4	46.4	88.8	218.1	563.3	896.5	872.2	363.4	109.0	40.4	40.4
85°	12.1	14.1	44.4	115.1	199.9	252.4	308.9	121.1	58.6	12.1	12.1
87.5°	4.0	4.0	16.2	36.3	38.4	26.2	58.6	46.4	36.3	4.0	4.0
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°	745.0	745.0	745.0	745.0	745.0	745.0	745.0	745.0	745.0	745.0	745.0
2.5°	741.0	737.0	726.9	718.8	714.7	708.7	700.6	696.6	696.6	694.6	688.5
5°	726.9	720.8	702.6	690.5	680.4	658.2	642.1	621.9	601.7	595.6	601.7
7.5°	720.8	708.7	684.5	660.2	617.8	559.3	520.9	478.5	464.4	446.2	448.2
10°	722.8	708.7	674.4	619.9	537.1	450.3	389.7	333.1	304.9	290.7	292.8
12.5°	728.9	712.7	664.3	565.3	446.2	341.2	248.3	203.9	195.8	195.8	195.8
15°	741.0	716.8	648.1	500.7	349.3	226.1	175.7	171.6	177.7	183.7	185.8
17.5°	753.1	728.9	623.9	434.1	254.4	169.6	163.5	163.5	169.6	175.7	177.7
20°	767.2	741.0	589.6	363.4	181.7	159.5	157.5	155.5	159.5	165.6	167.6
22.5°	789.5	753.1	549.2	280.7	157.5	153.4	149.4	147.4	149.4	155.5	157.5
25°	809.6	769.3	506.8	208.0	147.4	143.4	141.3	139.3	139.3	143.4	145.4
27.5°	833.9	787.4	460.3	155.5	135.3	133.3	131.2	129.2	127.2	131.2	133.3
30°	864.2	803.6	409.9	131.2	123.2	121.1	119.1	117.1	115.1	117.1	119.1
32.5°	902.5	825.8	351.3	119.1	113.1	107.0	105.0	105.0	103.0	103.0	105.0
35°	953.0	850.0	288.7	111.0	103.0	96.9	90.9	88.8	88.8	88.8	90.9
37.5°	1027.7	894.4	228.2	103.0	94.9	84.8	78.7	72.7	72.7	72.7	72.7
40°	1130.7	942.9	177.7	96.9	88.8	74.7	66.6	58.6	54.5	52.5	54.5
42.5°	1290.2	1015.6	137.3	88.8	84.8	66.6	54.5	44.4	36.3	34.3	36.3
45°	1465.8	1094.3	109.0	82.8	76.7	56.5	42.4	30.3	22.2	20.2	22.2
47.5°	1687.9	1193.3	92.9	74.7	66.6	46.4	30.3	16.2	10.1	12.1	12.1
50°	1902.0	1290.2	84.8	68.6	58.6	38.4	18.2	8.1	4.0	6.1	6.1
52.5°	2138.2	1393.2	78.7	60.6	50.5	28.3	10.1	2.0	0.0	2.0	2.0
55°	2376.4	1486.0	72.7	54.5	40.4	20.2	4.0	0.0	0.0	0.0	2.0
57.5°	2634.9	1564.8	66.6	46.4	30.3	12.1	2.0	0.0	0.0	0.0	0.0
60°	2850.9	1625.3	60.6	40.4	20.2	6.1	0.0	0.0	0.0	0.0	0.0
62.5°	3048.8	1679.9	46.4	30.3	12.1	4.0	0.0	0.0	0.0	0.0	0.0
65°	3180.0	1692.0	32.3	20.2	8.1	2.0	0.0	0.0	0.0	0.0	0.0
67.5°	3121.5	1587.0	20.2	14.1	4.0	2.0	0.0	0.0	0.0	0.0	0.0
70°	2743.9	1332.6	14.1	8.1	2.0	2.0	0.0	0.0	0.0	0.0	0.0
72.5°	1920.1	860.1	12.1	6.1	2.0	2.0	0.0	0.0	0.0	0.0	0.0
75°	1013.6	310.9	8.1	4.0	2.0	2.0	0.0	0.0	0.0	0.0	0.0
77.5°	359.4	68.6	4.0	2.0	0.0	2.0	0.0	0.0	0.0	0.0	0.0
80°	78.7	14.1	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	22.2	4.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	6.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.0	0.0	0.0	0.0	0.0	0.0	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)