

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: P595142

Luminaire Tested: **IST-PA1C-740-U-T4W-HSS**

Issue Date: 3/22/2022

Test Information

Test Method: LM-79-08
Report Number: P595142
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-PA1C-740-U-T4W-HSS
Description: IMPACT ELITE LED TRAPEZOID LUMINAIRE
(1) 70 CRI, 4000K, 615mA 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: 4805 lumens
Efficiency: N/A
Efficacy: 99.5 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

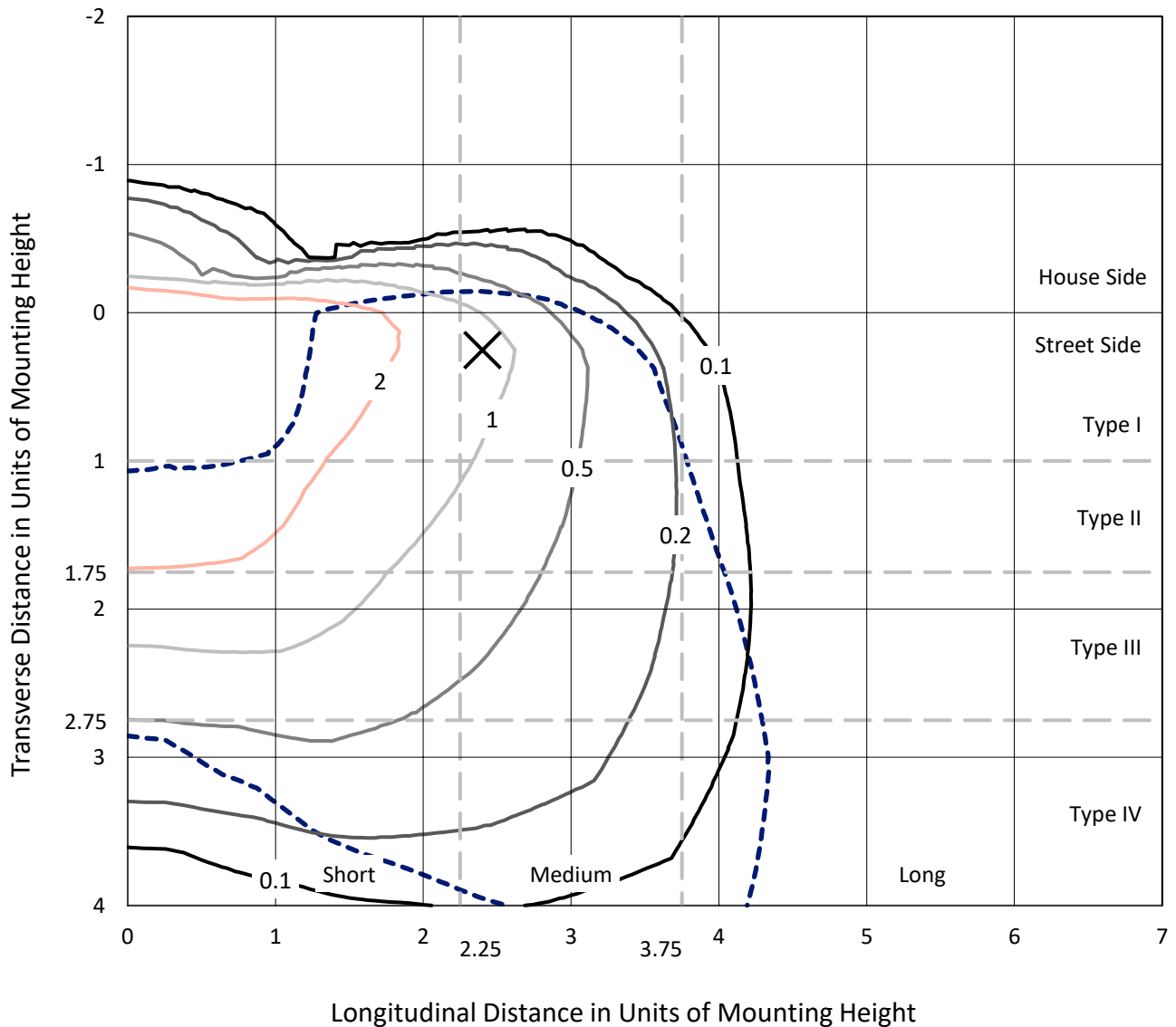
Input Watts (W): 48.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

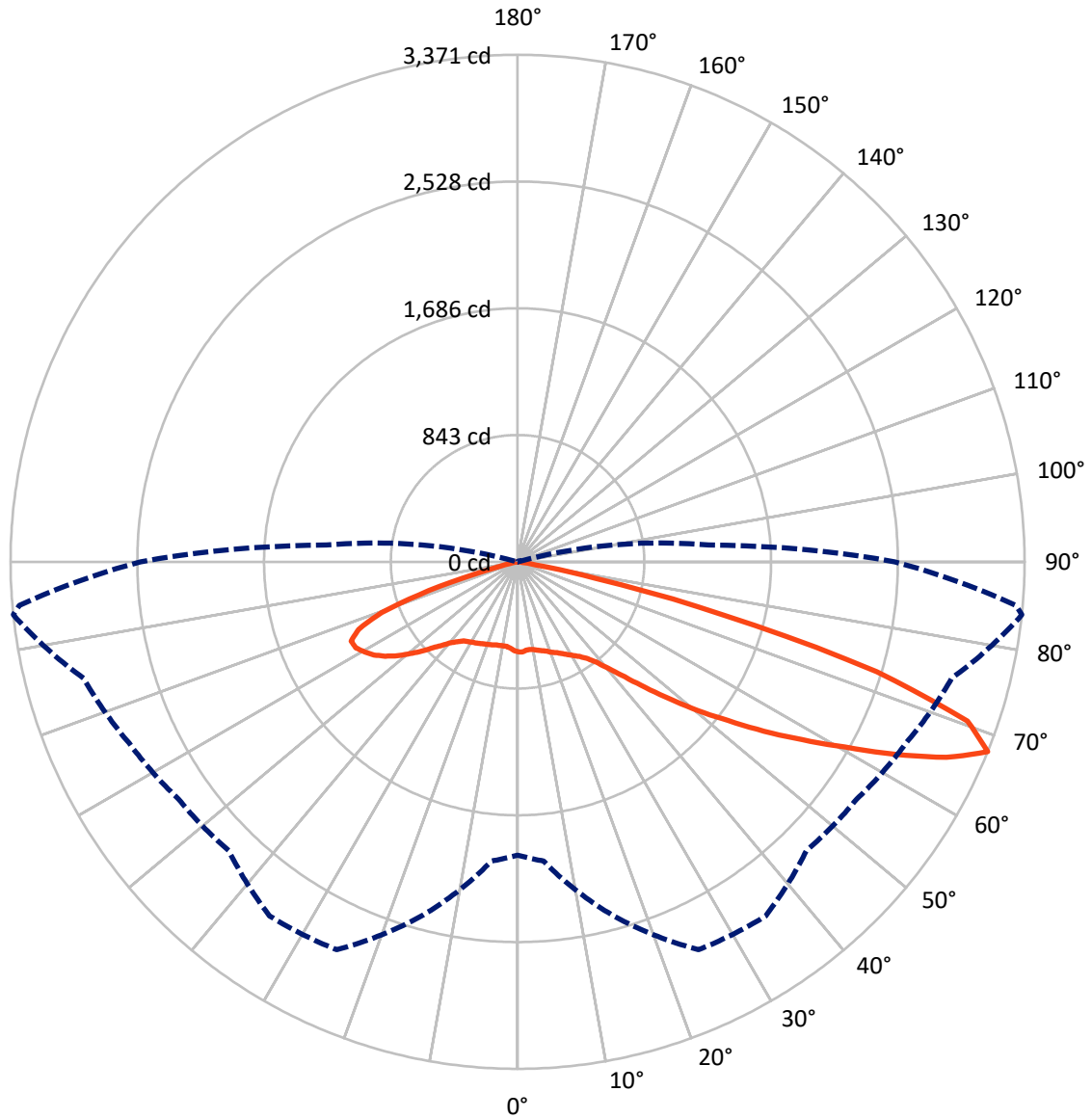
× Max cd
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 4.9 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
House Side	Lumens	418.3	0.0	418.3
	% Fixture	8.7	0.0	8.7
Street Side	Lumens	4386.6	0.0	4386.6
	% Fixture	91.3	0.0	91.3
Total	Lumens	4805.0	0.0	4805.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	53.7	1.1
10°-20°	140.4	2.9
20°-30°	224.9	4.7
30°-40°	323.6	6.7
40°-50°	555.4	11.6
50°-60°	970.4	20.2
60°-70°	1389.7	28.9
70°-80°	1044.5	21.7
80°-90°	102.5	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°	4805.0	100.0
0°-180°	4805.0	100.0

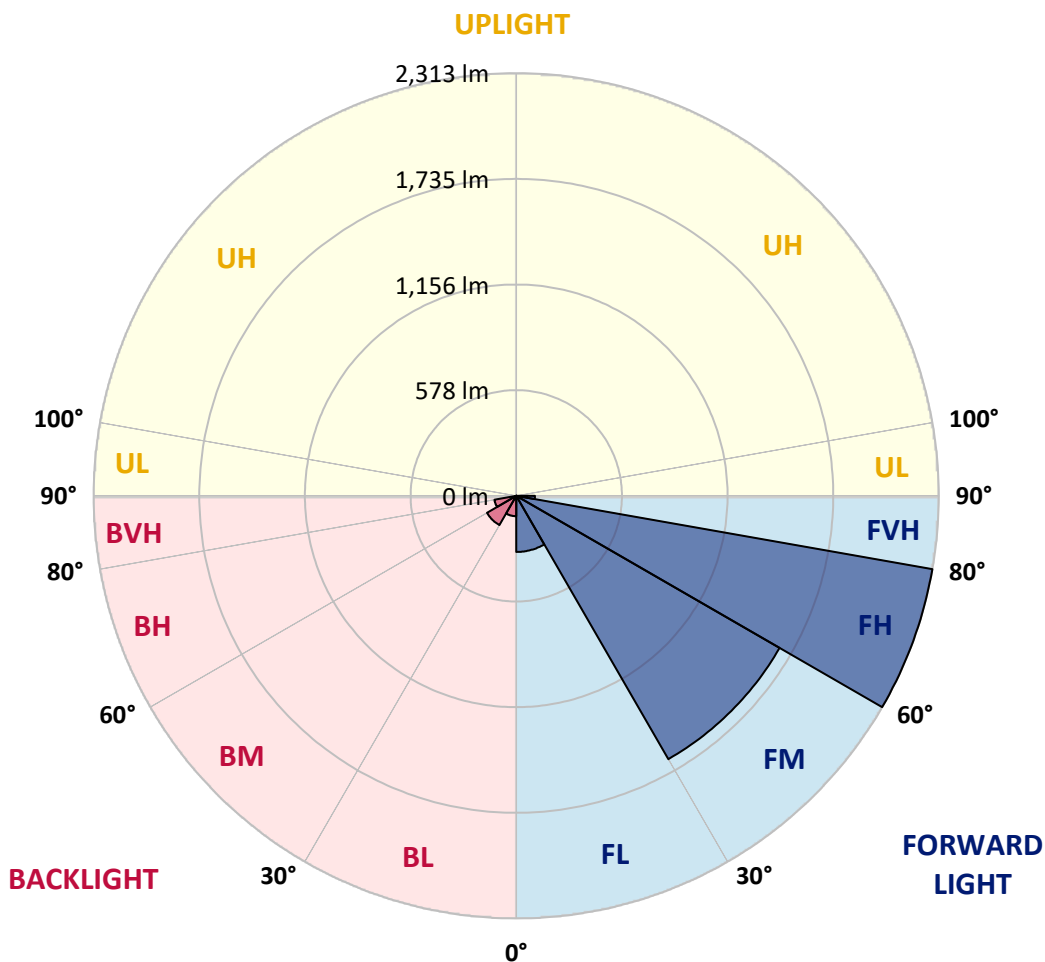


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	307.2	6.4			
FM (30°-60°)	1664.4	34.6			
FH (60°-80°)	2312.8	48.1			G2/5000
FVH (80°-90°)	102.2	2.1			G2/225
BL (0°-30°)	111.7	2.3	B1/500		
BM (30°-60°)	185.0	3.9	B0/220		
BH (60°-80°)	121.3	2.5	B1/500		G1/500
BVH (80°-90°)	0.3	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°	598.6	598.6	598.6	598.6	598.6	598.6	598.6	598.6	598.6	598.6	598.6
2.5°	632.7	636.0	637.6	629.5	629.5	623.0	613.2	610.0	605.1	600.3	598.6
5°	665.2	670.0	668.4	658.7	653.8	640.8	627.8	614.9	601.9	590.5	590.5
7.5°	702.5	704.1	699.2	683.0	673.3	655.4	636.0	621.4	605.1	588.9	585.7
10°	734.9	733.3	726.8	710.6	692.7	670.0	648.9	632.7	613.2	593.8	592.2
12.5°	757.6	759.3	751.1	728.4	710.6	684.6	663.5	647.3	624.6	603.5	598.6
15°	777.1	782.0	772.2	749.5	723.6	700.9	684.6	663.5	637.6	613.2	610.0
17.5°	794.9	796.6	788.5	762.5	738.2	718.7	700.9	681.4	655.4	624.6	621.4
20°	804.7	809.5	804.7	772.2	749.5	734.9	720.3	700.9	671.7	642.4	639.2
22.5°	811.2	816.0	814.4	778.7	759.3	747.9	734.9	717.1	689.5	655.4	652.2
25°	814.4	817.7	820.9	785.2	769.0	764.1	752.8	736.5	710.6	674.9	671.7
27.5°	819.3	822.5	825.8	793.3	786.8	782.0	778.7	765.7	734.9	697.6	692.7
30°	827.4	832.3	835.5	807.9	807.9	812.8	812.8	794.9	760.9	721.9	718.7
32.5°	837.1	838.8	845.2	822.5	830.6	842.0	838.8	820.9	785.2	749.5	744.7
35°	863.1	863.1	874.4	845.2	855.0	864.7	868.0	855.0	822.5	786.8	785.2
37.5°	926.4	926.4	936.1	889.0	887.4	897.2	908.5	908.5	876.1	843.6	840.4
40°	1069.1	1069.1	1069.1	960.4	942.6	953.9	971.8	981.5	953.9	931.2	931.2
42.5°	1307.6	1309.2	1284.9	1091.8	1015.6	1035.1	1054.5	1075.6	1061.0	1044.8	1041.5
45°	1554.2	1546.1	1542.8	1284.9	1145.4	1135.6	1160.0	1195.7	1200.5	1190.8	1197.3
47.5°	1722.9	1731.0	1735.9	1525.0	1327.1	1260.6	1283.3	1333.6	1362.8	1361.1	1370.9
50°	1886.8	1891.7	1896.5	1789.4	1567.2	1417.9	1432.5	1500.7	1541.2	1554.2	1560.7
52.5°	2029.6	2016.6	2037.7	2023.1	1821.9	1598.0	1598.0	1675.9	1748.9	1753.8	1752.1
55°	2071.7	2079.8	2143.1	2186.9	2083.1	1818.6	1786.2	1868.9	1946.8	1987.4	1987.4
57.5°	2165.8	2173.9	2250.2	2349.2	2272.9	2036.0	1987.4	2068.5	2152.9	2230.7	2242.1
60°	2289.1	2290.8	2371.9	2522.7	2417.3	2232.3	2191.8	2284.3	2368.6	2501.7	2539.0
62.5°	2355.6	2362.1	2474.1	2672.0	2599.0	2404.3	2394.6	2478.9	2587.6	2821.3	2855.3
65°	2253.4	2295.6	2539.0	2761.2	2746.6	2564.9	2599.0	2667.1	2792.1	3134.4	3166.8
67.5°	1950.1	1997.1	2431.9	2845.6	2874.8	2715.8	2751.5	2850.5	2988.4	3371.2	3325.8
70°	1795.9	1834.9	2172.3	2892.6	2981.9	2884.5	2900.8	2993.2	3033.8	3173.3	3124.6
72.5°	1361.1	1401.7	1838.1	2732.0	3074.3	3061.4	3020.8	2944.6	2704.4	2496.8	2378.4
75°	601.9	648.9	1223.2	2135.0	2845.6	3161.9	2947.8	2521.1	1941.9	1417.9	1314.1
77.5°	266.1	293.6	473.7	1185.9	2138.2	2736.9	2331.3	1680.7	975.0	527.3	489.9
80°	86.0	89.2	149.3	415.3	1093.5	1812.2	1427.7	807.9	300.1	123.3	115.2
82.5°	34.1	37.3	71.4	175.2	452.6	720.3	700.9	292.0	87.6	32.4	32.4
85°	9.7	11.4	35.7	92.5	160.6	202.8	248.2	97.3	47.0	9.7	9.7
87.5°	3.2	3.2	13.0	29.2	30.8	21.1	47.0	37.3	29.2	3.2	3.2
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°	598.6	598.6	598.6	598.6	598.6	598.6	598.6	598.6	598.6	598.6	598.6
2.5°	595.4	592.2	584.0	577.6	574.3	569.4	563.0	559.7	559.7	558.1	553.2
5°	584.0	579.2	564.6	554.8	546.7	528.9	515.9	499.7	483.5	478.6	483.5
7.5°	579.2	569.4	550.0	530.5	496.4	449.4	418.6	384.5	373.1	358.5	360.2
10°	580.8	569.4	541.9	498.1	431.5	361.8	313.1	267.7	245.0	233.6	235.2
12.5°	585.7	572.7	533.8	454.3	358.5	274.2	199.5	163.9	157.4	157.4	157.4
15°	595.4	575.9	520.8	402.3	280.7	181.7	141.1	137.9	142.8	147.6	149.3
17.5°	605.1	585.7	501.3	348.8	204.4	136.3	131.4	131.4	136.3	141.1	142.8
20°	616.5	595.4	473.7	292.0	146.0	128.2	126.5	124.9	128.2	133.0	134.7
22.5°	634.3	605.1	441.3	225.5	126.5	123.3	120.1	118.4	120.1	124.9	126.5
25°	650.6	618.1	407.2	167.1	118.4	115.2	113.6	111.9	111.9	115.2	116.8
27.5°	670.0	632.7	369.9	124.9	108.7	107.1	105.5	103.8	102.2	105.5	107.1
30°	694.4	645.7	329.3	105.5	99.0	97.3	95.7	94.1	92.5	94.1	95.7
32.5°	725.2	663.5	282.3	95.7	90.9	86.0	84.4	84.4	82.7	82.7	84.4
35°	765.7	683.0	232.0	89.2	82.7	77.9	73.0	71.4	71.4	71.4	73.0
37.5°	825.8	718.7	183.3	82.7	76.3	68.1	63.3	58.4	58.4	58.4	58.4
40°	908.5	757.6	142.8	77.9	71.4	60.0	53.5	47.0	43.8	42.2	43.8
42.5°	1036.7	816.0	110.3	71.4	68.1	53.5	43.8	35.7	29.2	27.6	29.2
45°	1177.8	879.3	87.6	66.5	61.6	45.4	34.1	24.3	17.8	16.2	17.8
47.5°	1356.3	958.8	74.6	60.0	53.5	37.3	24.3	13.0	8.1	9.7	9.7
50°	1528.2	1036.7	68.1	55.2	47.0	30.8	14.6	6.5	3.2	4.9	4.9
52.5°	1718.1	1119.4	63.3	48.7	40.6	22.7	8.1	1.6	0.0	1.6	1.6
55°	1909.5	1194.0	58.4	43.8	32.4	16.2	3.2	0.0	0.0	0.0	1.6
57.5°	2117.2	1257.3	53.5	37.3	24.3	9.7	1.6	0.0	0.0	0.0	0.0
60°	2290.8	1306.0	48.7	32.4	16.2	4.9	0.0	0.0	0.0	0.0	0.0
62.5°	2449.7	1349.8	37.3	24.3	9.7	3.2	0.0	0.0	0.0	0.0	0.0
65°	2555.2	1359.5	26.0	16.2	6.5	1.6	0.0	0.0	0.0	0.0	0.0
67.5°	2508.1	1275.2	16.2	11.4	3.2	1.6	0.0	0.0	0.0	0.0	0.0
70°	2204.8	1070.7	11.4	6.5	1.6	1.6	0.0	0.0	0.0	0.0	0.0
72.5°	1542.8	691.1	9.7	4.9	1.6	1.6	0.0	0.0	0.0	0.0	0.0
75°	814.4	249.8	6.5	3.2	1.6	1.6	0.0	0.0	0.0	0.0	0.0
77.5°	288.8	55.2	3.2	1.6	0.0	1.6	0.0	0.0	0.0	0.0	0.0
80°	63.3	11.4	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	17.8	3.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	4.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.6	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)