

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: P595088

Luminaire Tested: **IST-PA1B-827-U-T4W-HSS**

Issue Date: 3/22/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P595088  
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-PA1B-827-U-T4W-HSS  
Description: IMPACT ELITE LED TRAPEZOID LUMINAIRE  
(1) 80 CRI, 2700K, 450mA 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: 2731 lumens  
Efficiency: N/A  
Efficacy: 75.0 lumens/watt  
Luminous Opening: Rectangular (W 0.75' x L: 0.5' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B0 - U0 - G1

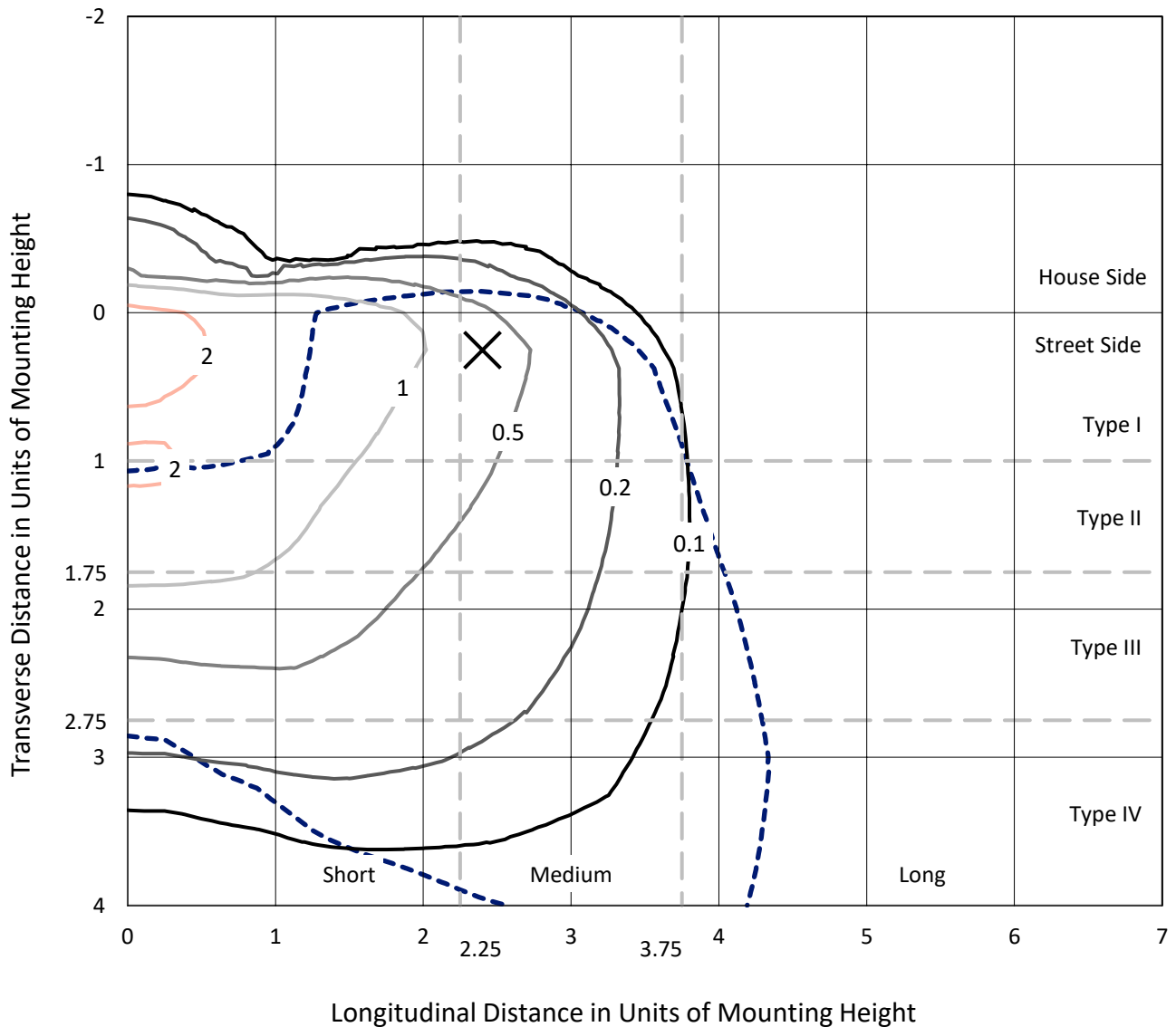
Input Watts (W): 36.4  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

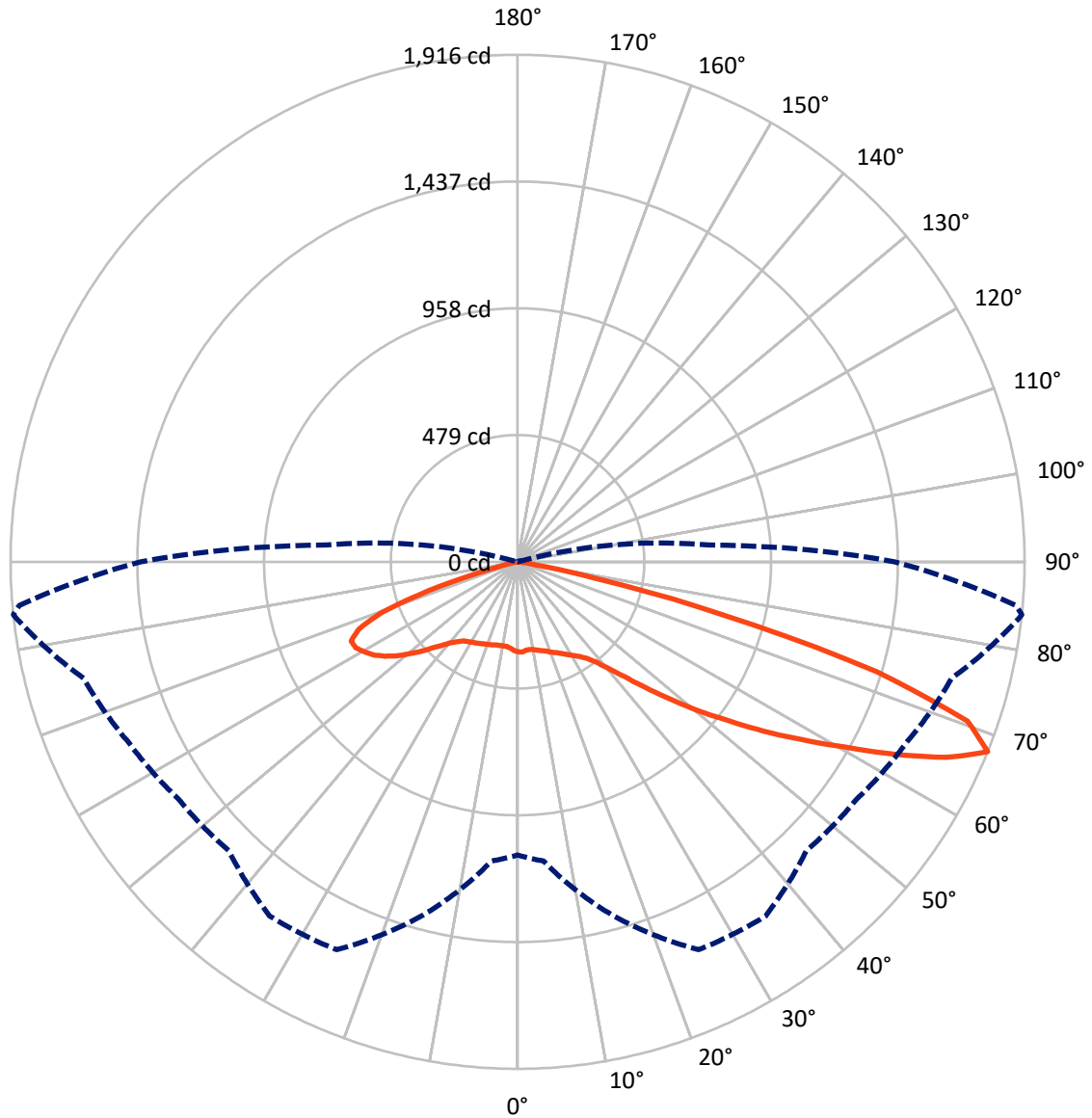
× Max cd  
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 2.8 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	237.8	0.0	237.8
	% Fixture	8.7	0.0	8.7
<b>Street Side</b>	Lumens	2493.2	0.0	2493.2
	% Fixture	91.3	0.0	91.3
<b>Total</b>	Lumens	2731.0	0.0	2731.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	30.5	1.1
10°-20°	79.8	2.9
20°-30°	127.8	4.7
30°-40°	183.9	6.7
40°-50°	315.7	11.6
50°-60°	551.5	20.2
60°-70°	789.8	28.9
70°-80°	593.6	21.7
80°-90°	58.3	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°	2731.0	100.0
0°-180°	2731.0	100.0

**Coefficient of Utilization**

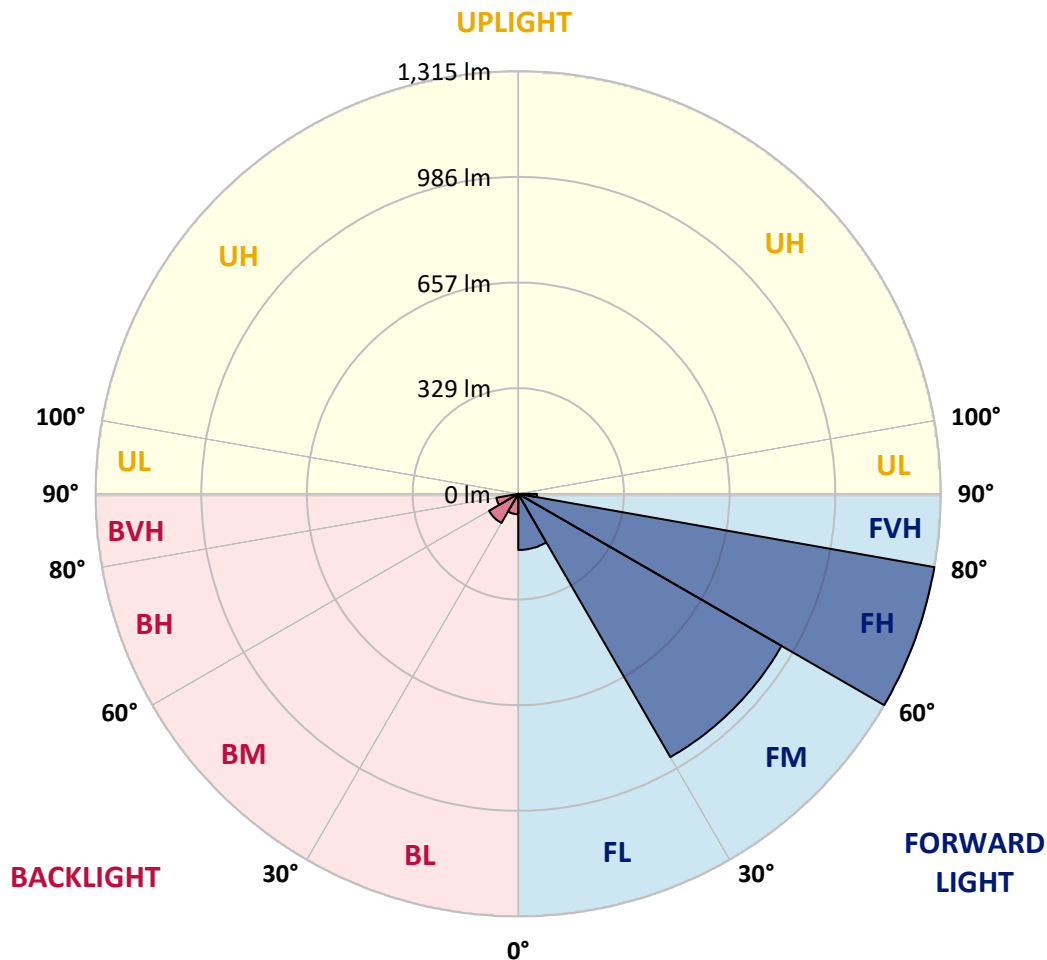


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	174.6	6.4			
FM (30°-60°)	946.0	34.6			
FH (60°-80°)	1314.6	48.1			G1/1800
FVH (80°-90°)	58.1	2.1			G1/100
BL (0°-30°)	63.5	2.3	B0/110		
BM (30°-60°)	105.1	3.9	B0/220		
BH (60°-80°)	68.9	2.5	B0/110		G0/110
BVH (80°-90°)	0.2	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 IV Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	84°	85°
0°	340.2	340.2	340.2	340.2	340.2	340.2	340.2	340.2	340.2	340.2	340.2
2.5°	359.6	361.5	362.4	357.8	357.8	354.1	348.5	346.7	343.9	341.2	340.2
5°	378.1	380.8	379.9	374.4	371.6	364.2	356.8	349.5	342.1	335.6	335.6
7.5°	399.3	400.2	397.4	388.2	382.7	372.5	361.5	353.2	343.9	334.7	332.9
10°	417.7	416.8	413.1	403.9	393.7	380.8	368.8	359.6	348.5	337.5	336.6
12.5°	430.6	431.5	426.9	414.0	403.9	389.1	377.1	367.9	355.0	343.0	340.2
15°	441.7	444.4	438.9	426.0	411.3	398.3	389.1	377.1	362.4	348.5	346.7
17.5°	451.8	452.7	448.1	433.4	419.5	408.5	398.3	387.3	372.5	355.0	353.2
20°	457.4	460.1	457.4	438.9	426.0	417.7	409.4	398.3	381.7	365.1	363.3
22.5°	461.0	463.8	462.9	442.6	431.5	425.1	417.7	407.6	391.9	372.5	370.7
25°	462.9	464.7	466.6	446.3	437.1	434.3	427.8	418.6	403.9	383.6	381.7
27.5°	465.7	467.5	469.3	450.9	447.2	444.4	442.6	435.2	417.7	396.5	393.7
30°	470.3	473.0	474.9	459.2	459.2	462.0	462.0	451.8	432.5	410.3	408.5
32.5°	475.8	476.7	480.4	467.5	472.1	478.6	476.7	466.6	446.3	426.0	423.2
35°	490.5	490.5	497.0	480.4	485.9	491.5	493.3	485.9	467.5	447.2	446.3
37.5°	526.5	526.5	532.0	505.3	504.4	509.9	516.4	516.4	497.9	479.5	477.6
40°	607.7	607.7	607.7	545.9	535.7	542.2	552.3	557.9	542.2	529.3	529.3
42.5°	743.2	744.1	730.3	620.6	577.2	588.3	599.4	611.3	603.0	593.8	592.0
45°	883.4	878.7	876.9	730.3	651.0	645.5	659.3	679.6	682.3	676.8	680.5
47.5°	979.3	983.9	986.6	866.8	754.3	716.5	729.4	758.0	774.6	773.6	779.2
50°	1072.4	1075.2	1077.9	1017.1	890.7	805.9	814.2	852.9	876.0	883.4	887.0
52.5°	1153.5	1146.2	1158.1	1149.8	1035.5	908.3	908.3	952.5	994.0	996.8	995.9
55°	1177.5	1182.1	1218.1	1243.0	1184.0	1033.7	1015.2	1062.2	1106.5	1129.6	1129.6
57.5°	1231.0	1235.6	1278.9	1335.2	1291.8	1157.2	1129.6	1175.7	1223.6	1267.9	1274.3
60°	1301.1	1302.0	1348.1	1433.8	1373.9	1268.8	1245.7	1298.3	1346.2	1421.9	1443.1
62.5°	1338.9	1342.6	1406.2	1518.7	1477.2	1366.5	1361.0	1408.9	1470.7	1603.5	1622.9
65°	1280.8	1304.8	1443.1	1569.4	1561.1	1457.8	1477.2	1515.9	1586.9	1781.5	1799.9
67.5°	1108.3	1135.1	1382.2	1617.3	1633.9	1543.6	1563.9	1620.1	1698.5	1916.1	1890.3
70°	1020.7	1042.9	1234.7	1644.1	1694.8	1639.5	1648.7	1701.2	1724.3	1803.6	1775.9
72.5°	773.6	796.7	1044.7	1552.8	1747.4	1740.0	1716.9	1673.6	1537.1	1419.1	1351.8
75°	342.1	368.8	695.3	1213.5	1617.3	1797.1	1675.4	1432.9	1103.7	805.9	746.9
77.5°	151.2	166.9	269.2	674.0	1215.3	1555.6	1325.0	955.3	554.2	299.7	278.5
80°	48.9	50.7	84.8	236.1	621.5	1030.0	811.4	459.2	170.6	70.1	65.5
82.5°	19.4	21.2	40.6	99.6	257.3	409.4	398.3	166.0	49.8	18.4	18.4
85°	5.5	6.5	20.3	52.6	91.3	115.3	141.1	55.3	26.7	5.5	5.5
87.5°	1.8	1.8	7.4	16.6	17.5	12.0	26.7	21.2	16.6	1.8	1.8
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°	340.2	340.2	340.2	340.2	340.2	340.2	340.2	340.2	340.2	340.2	340.2
2.5°	338.4	336.6	332.0	328.3	326.4	323.7	320.0	318.1	318.1	317.2	314.4
5°	332.0	329.2	320.9	315.4	310.7	300.6	293.2	284.0	274.8	272.0	274.8
7.5°	329.2	323.7	312.6	301.5	282.2	255.4	237.9	218.5	212.1	203.8	204.7
10°	330.1	323.7	308.0	283.1	245.3	205.6	178.0	152.1	139.2	132.8	133.7
12.5°	332.9	325.5	303.4	258.2	203.8	155.8	113.4	93.1	89.4	89.4	89.4
15°	338.4	327.3	296.0	228.7	159.5	103.3	80.2	78.4	81.1	83.9	84.8
17.5°	343.9	332.9	284.9	198.2	116.2	77.5	74.7	74.7	77.5	80.2	81.1
20°	350.4	338.4	269.2	166.0	83.0	72.8	71.9	71.0	72.8	75.6	76.5
22.5°	360.5	343.9	250.8	128.2	71.9	70.1	68.2	67.3	68.2	71.0	71.9
25°	369.8	351.3	231.4	95.0	67.3	65.5	64.5	63.6	63.6	65.5	66.4
27.5°	380.8	359.6	210.2	71.0	61.8	60.9	59.9	59.0	58.1	59.9	60.9
30°	394.7	367.0	187.2	59.9	56.2	55.3	54.4	53.5	52.6	53.5	54.4
32.5°	412.2	377.1	160.4	54.4	51.6	48.9	47.9	47.9	47.0	47.0	47.9
35°	435.2	388.2	131.9	50.7	47.0	44.3	41.5	40.6	40.6	40.6	41.5
37.5°	469.3	408.5	104.2	47.0	43.3	38.7	36.0	33.2	33.2	33.2	33.2
40°	516.4	430.6	81.1	44.3	40.6	34.1	30.4	26.7	24.9	24.0	24.9
42.5°	589.2	463.8	62.7	40.6	38.7	30.4	24.9	20.3	16.6	15.7	16.6
45°	669.4	499.8	49.8	37.8	35.0	25.8	19.4	13.8	10.1	9.2	10.1
47.5°	770.9	545.0	42.4	34.1	30.4	21.2	13.8	7.4	4.6	5.5	5.5
50°	868.6	589.2	38.7	31.4	26.7	17.5	8.3	3.7	1.8	2.8	2.8
52.5°	976.5	636.2	36.0	27.7	23.1	12.9	4.6	0.9	0.0	0.9	0.9
55°	1085.3	678.7	33.2	24.9	18.4	9.2	1.8	0.0	0.0	0.0	0.9
57.5°	1203.3	714.6	30.4	21.2	13.8	5.5	0.9	0.0	0.0	0.0	0.0
60°	1302.0	742.3	27.7	18.4	9.2	2.8	0.0	0.0	0.0	0.0	0.0
62.5°	1392.3	767.2	21.2	13.8	5.5	1.8	0.0	0.0	0.0	0.0	0.0
65°	1452.3	772.7	14.8	9.2	3.7	0.9	0.0	0.0	0.0	0.0	0.0
67.5°	1425.5	724.8	9.2	6.5	1.8	0.9	0.0	0.0	0.0	0.0	0.0
70°	1253.1	608.6	6.5	3.7	0.9	0.9	0.0	0.0	0.0	0.0	0.0
72.5°	876.9	392.8	5.5	2.8	0.9	0.9	0.0	0.0	0.0	0.0	0.0
75°	462.9	142.0	3.7	1.8	0.9	0.9	0.0	0.0	0.0	0.0	0.0
77.5°	164.1	31.4	1.8	0.9	0.0	0.9	0.0	0.0	0.0	0.0	0.0
80°	36.0	6.5	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	10.1	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	2.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.9	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)