

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: P595178

Luminaire Tested: **IST-PA1C-830-U-T4W-HSS**

Issue Date: 3/22/2022

Test Information

Test Method: LM-79-08
Report Number: P595178
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-830-U-T4W-HSS
Description: IMPACT ELITE LED TRAPEZOID LUMINAIRE
(1) 80 CRI, 3000K, 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: 3818 lumens
Efficiency: N/A
Efficacy: 79.0 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 0.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B0 - U0 - G2

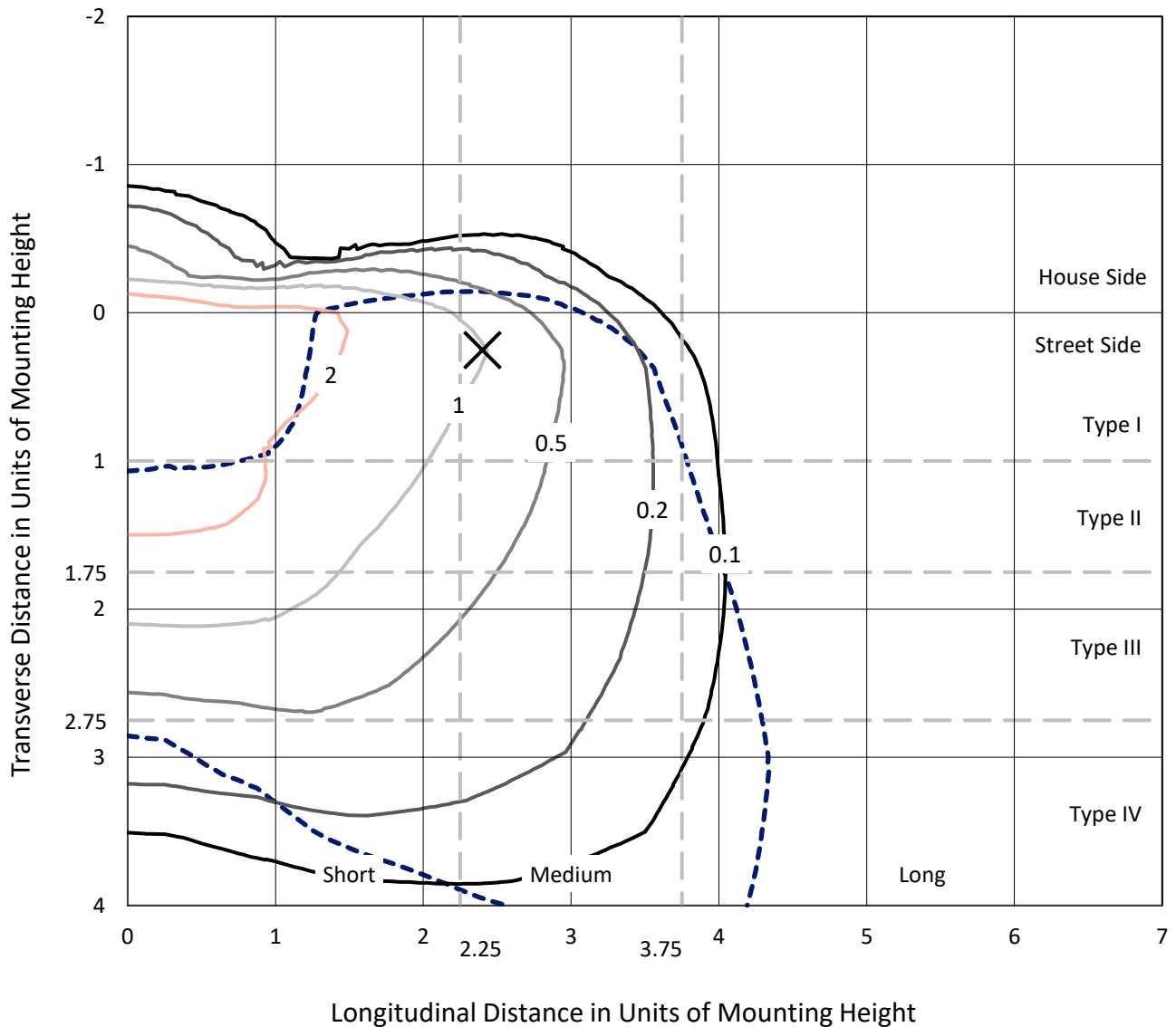
Input Watts (W): 48.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

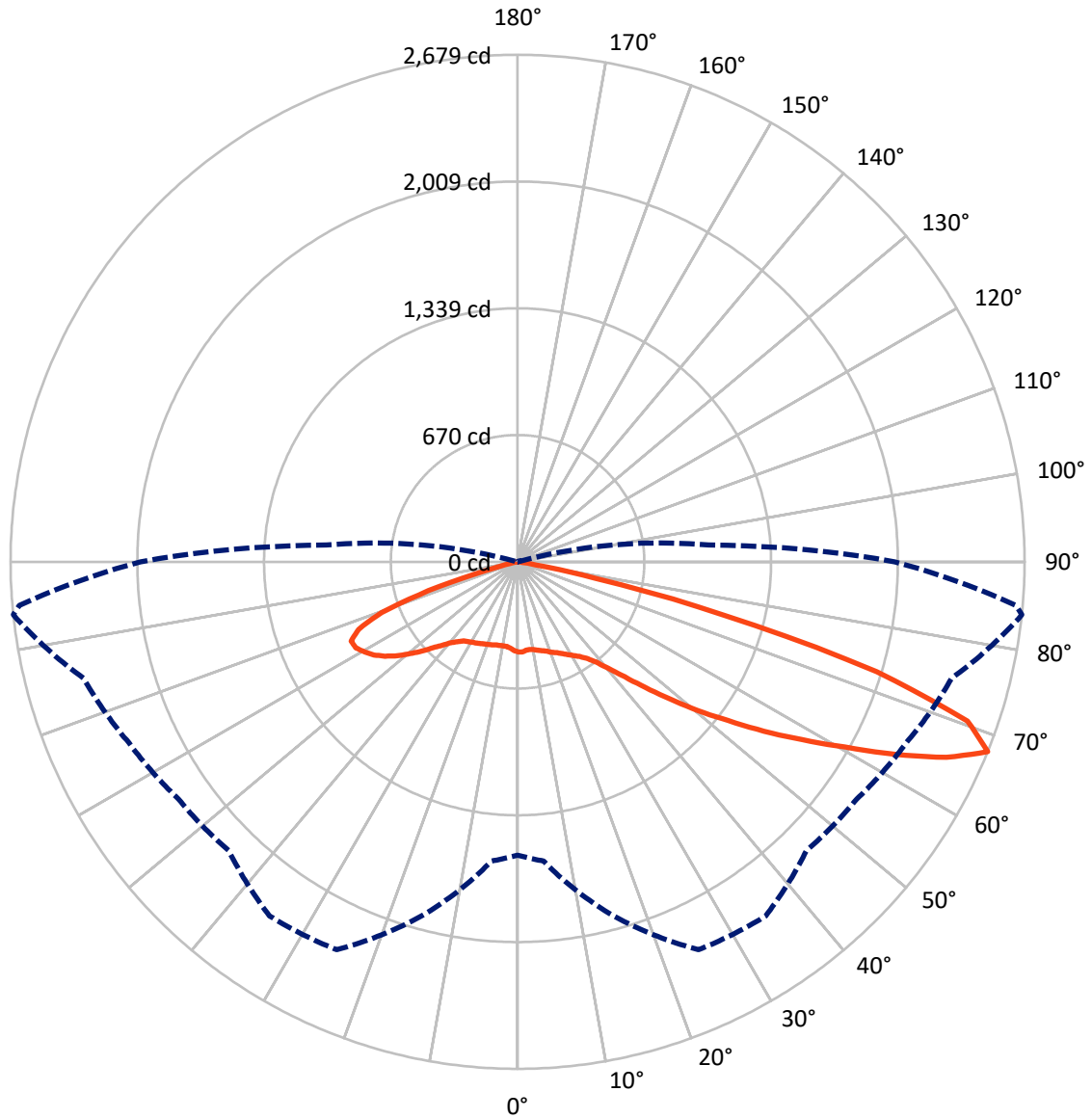
× Max cd
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 3.9 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	332.4	0.0	332.4
	% Fixture	8.7	0.0	8.7
Street Side	Lumens	3485.6	0.0	3485.6
	% Fixture	91.3	0.0	91.3
Total	Lumens	3818.0	0.0	3818.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	42.6	1.1
10°-20°	111.6	2.9
20°-30°	178.7	4.7
30°-40°	257.1	6.7
40°-50°	441.3	11.6
50°-60°	771.1	20.2
60°-70°	1104.2	28.9
70°-80°	829.9	21.7
80°-90°	81.5	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°	3818.0	100.0
0°-180°	3818.0	100.0

Coefficient of Utilization

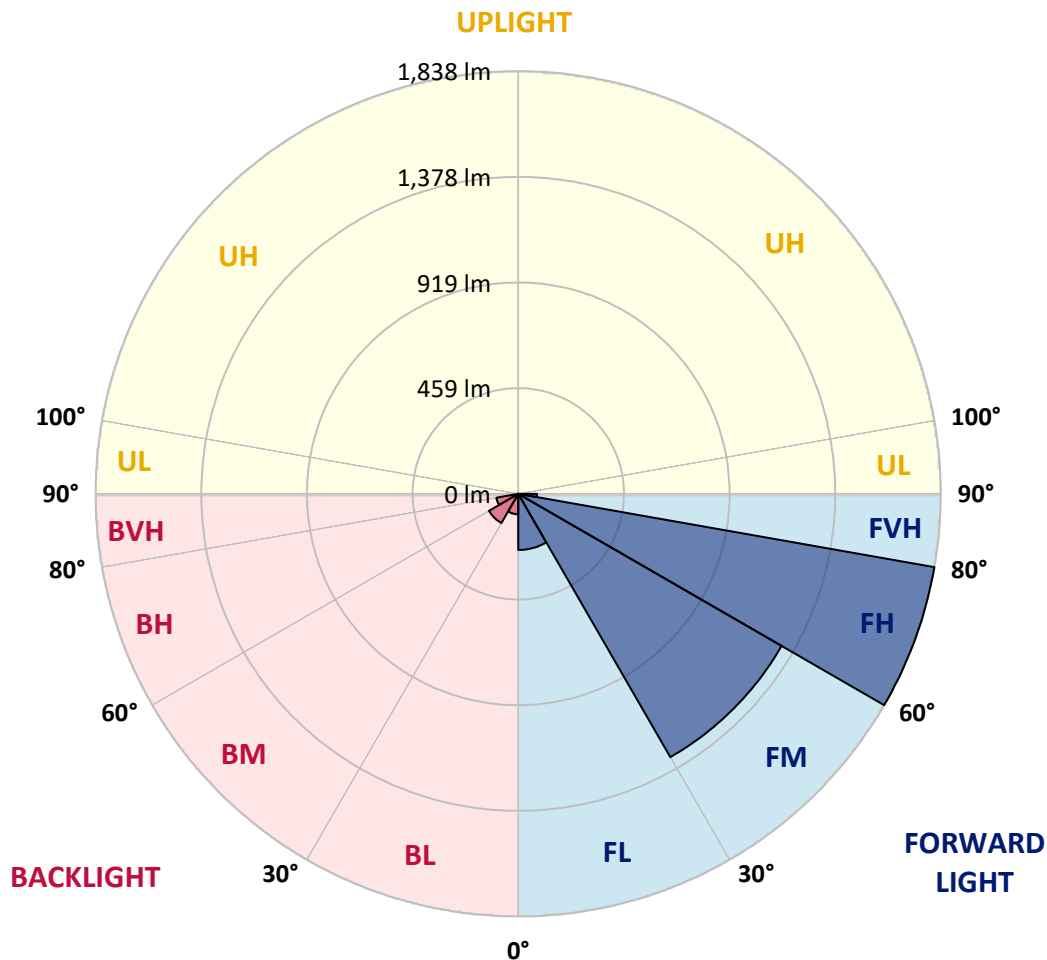


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	244.1	6.4			
FM (30°-60°)	1322.5	34.6			
FH (60°-80°)	1837.8	48.1			G2/5000
FVH (80°-90°)	81.2	2.1			G1/100
BL (0°-30°)	88.8	2.3	B0/110		
BM (30°-60°)	147.0	3.9	B0/220		
BH (60°-80°)	96.4	2.5	B0/110		G0/110
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: B0-U0-G2
 Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	84°	85°
0°	475.7	475.7	475.7	475.7	475.7	475.7	475.7	475.7	475.7	475.7	475.7
2.5°	502.7	505.3	506.6	500.2	500.2	495.0	487.3	484.7	480.8	477.0	475.7
5°	528.5	532.4	531.1	523.4	519.5	509.2	498.9	488.6	478.3	469.2	469.2
7.5°	558.2	559.5	555.6	542.7	535.0	520.8	505.3	493.7	480.8	467.9	465.4
10°	584.0	582.7	577.5	564.6	550.4	532.4	515.6	502.7	487.3	471.8	470.5
12.5°	602.0	603.3	596.9	578.8	564.6	544.0	527.2	514.3	496.3	479.5	475.7
15°	617.5	621.3	613.6	595.6	574.9	556.9	544.0	527.2	506.6	487.3	484.7
17.5°	631.7	632.9	626.5	605.9	586.5	571.1	556.9	541.4	520.8	496.3	493.7
20°	639.4	643.3	639.4	613.6	595.6	584.0	572.4	556.9	533.7	510.5	507.9
22.5°	644.5	648.4	647.1	618.8	603.3	594.3	584.0	569.8	547.9	520.8	518.2
25°	647.1	649.7	652.3	623.9	611.0	607.2	598.1	585.3	564.6	536.3	533.7
27.5°	651.0	653.6	656.2	630.4	625.2	621.3	618.8	608.5	584.0	554.3	550.4
30°	657.4	661.3	663.9	642.0	642.0	645.8	645.8	631.7	604.6	573.6	571.1
32.5°	665.2	666.5	671.6	653.6	660.0	669.0	666.5	652.3	623.9	595.6	591.7
35°	685.8	685.8	694.8	671.6	679.4	687.1	689.7	679.4	653.6	625.2	623.9
37.5°	736.1	736.1	743.8	706.4	705.1	712.9	721.9	721.9	696.1	670.3	667.8
40°	849.5	849.5	849.5	763.1	749.0	758.0	772.2	779.9	758.0	739.9	739.9
42.5°	1039.0	1040.3	1021.0	867.6	807.0	822.4	837.9	854.7	843.1	830.2	827.6
45°	1235.0	1228.5	1225.9	1021.0	910.1	902.4	921.7	950.1	953.9	946.2	951.4
47.5°	1369.0	1375.5	1379.3	1211.8	1054.5	1001.6	1019.7	1059.6	1082.8	1081.6	1089.3
50°	1499.2	1503.1	1507.0	1421.9	1245.3	1126.7	1138.3	1192.4	1224.6	1235.0	1240.1
52.5°	1612.7	1602.3	1619.1	1607.5	1447.7	1269.8	1269.8	1331.6	1389.6	1393.5	1392.2
55°	1646.2	1652.6	1702.9	1737.7	1655.2	1445.1	1419.3	1485.0	1546.9	1579.1	1579.1
57.5°	1720.9	1727.4	1788.0	1866.6	1806.0	1617.8	1579.1	1643.6	1710.6	1772.5	1781.5
60°	1818.9	1820.2	1884.7	2004.5	1920.8	1773.8	1741.6	1815.0	1882.1	1987.8	2017.4
62.5°	1871.8	1876.9	1965.9	2123.1	2065.1	1910.4	1902.7	1969.7	2056.1	2241.7	2268.8
65°	1790.6	1824.1	2017.4	2194.0	2182.4	2038.1	2065.1	2119.3	2218.5	2490.5	2516.3
67.5°	1549.5	1586.9	1932.4	2261.1	2284.3	2157.9	2186.3	2264.9	2374.5	2678.7	2642.6
70°	1427.0	1458.0	1726.1	2298.5	2369.4	2292.0	2304.9	2378.4	2410.6	2521.5	2482.8
72.5°	1081.6	1113.8	1460.5	2170.8	2442.8	2432.5	2400.3	2339.7	2148.9	1983.9	1889.8
75°	478.3	515.6	972.0	1696.5	2261.1	2512.5	2342.3	2003.3	1543.0	1126.7	1044.2
77.5°	211.4	233.3	376.4	942.3	1699.0	2174.7	1852.4	1335.5	774.7	419.0	389.3
80°	68.3	70.9	118.6	330.0	868.9	1439.9	1134.4	642.0	238.5	98.0	91.5
82.5°	27.1	29.6	56.7	139.2	359.7	572.4	556.9	232.0	69.6	25.8	25.8
85°	7.7	9.0	28.4	73.5	127.6	161.1	197.2	77.3	37.4	7.7	7.7
87.5°	2.6	2.6	10.3	23.2	24.5	16.8	37.4	29.6	23.2	2.6	2.6
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°	475.7	475.7	475.7	475.7	475.7	475.7	475.7	475.7	475.7	475.7	475.7
2.5°	473.1	470.5	464.1	458.9	456.3	452.5	447.3	444.7	444.7	443.4	439.6
5°	464.1	460.2	448.6	440.9	434.4	420.2	409.9	397.0	384.2	380.3	384.2
7.5°	460.2	452.5	437.0	421.5	394.5	357.1	332.6	305.5	296.5	284.9	286.2
10°	461.5	452.5	430.6	395.8	342.9	287.5	248.8	212.7	194.7	185.6	186.9
12.5°	465.4	455.1	424.1	360.9	284.9	217.9	158.6	130.2	125.0	125.0	125.0
15°	473.1	457.6	413.8	319.7	223.0	144.4	112.2	109.6	113.4	117.3	118.6
17.5°	480.8	465.4	398.3	277.2	162.4	108.3	104.4	104.4	108.3	112.2	113.4
20°	489.9	473.1	376.4	232.0	116.0	101.8	100.5	99.3	101.8	105.7	107.0
22.5°	504.0	480.8	350.6	179.2	100.5	98.0	95.4	94.1	95.4	99.3	100.5
25°	516.9	491.1	323.6	132.8	94.1	91.5	90.2	88.9	88.9	91.5	92.8
27.5°	532.4	502.7	293.9	99.3	86.4	85.1	83.8	82.5	81.2	83.8	85.1
30°	551.7	513.1	261.7	83.8	78.6	77.3	76.1	74.8	73.5	74.8	76.1
32.5°	576.2	527.2	224.3	76.1	72.2	68.3	67.0	67.0	65.7	65.7	67.0
35°	608.5	542.7	184.3	70.9	65.7	61.9	58.0	56.7	56.7	56.7	58.0
37.5°	656.2	571.1	145.7	65.7	60.6	54.1	50.3	46.4	46.4	46.4	46.4
40°	721.9	602.0	113.4	61.9	56.7	47.7	42.5	37.4	34.8	33.5	34.8
42.5°	823.7	648.4	87.7	56.7	54.1	42.5	34.8	28.4	23.2	21.9	23.2
45°	935.9	698.7	69.6	52.9	49.0	36.1	27.1	19.3	14.2	12.9	14.2
47.5°	1077.7	761.9	59.3	47.7	42.5	29.6	19.3	10.3	6.4	7.7	7.7
50°	1214.3	823.7	54.1	43.8	37.4	24.5	11.6	5.2	2.6	3.9	3.9
52.5°	1365.2	889.5	50.3	38.7	32.2	18.0	6.4	1.3	0.0	1.3	1.3
55°	1517.3	948.8	46.4	34.8	25.8	12.9	2.6	0.0	0.0	0.0	1.3
57.5°	1682.3	999.1	42.5	29.6	19.3	7.7	1.3	0.0	0.0	0.0	0.0
60°	1820.2	1037.7	38.7	25.8	12.9	3.9	0.0	0.0	0.0	0.0	0.0
62.5°	1946.5	1072.5	29.6	19.3	7.7	2.6	0.0	0.0	0.0	0.0	0.0
65°	2030.3	1080.3	20.6	12.9	5.2	1.3	0.0	0.0	0.0	0.0	0.0
67.5°	1992.9	1013.2	12.9	9.0	2.6	1.3	0.0	0.0	0.0	0.0	0.0
70°	1751.9	850.8	9.0	5.2	1.3	1.3	0.0	0.0	0.0	0.0	0.0
72.5°	1225.9	549.2	7.7	3.9	1.3	1.3	0.0	0.0	0.0	0.0	0.0
75°	647.1	198.5	5.2	2.6	1.3	1.3	0.0	0.0	0.0	0.0	0.0
77.5°	229.5	43.8	2.6	1.3	0.0	1.3	0.0	0.0	0.0	0.0	0.0
80°	50.3	9.0	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	14.2	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	3.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.3	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)