

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: P594962

Luminaire Tested: **IST-PA1A-735-U-T4W-HSS**

Issue Date: 3/22/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P594962  
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-PA1A-735-U-T4W-HSS  
Description: IMPACT ELITE LED TRAPEZOID LUMINAIRE  
(1) 70 CRI, 3500K, 350mA 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: 2759 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: B0 - U0 - G1

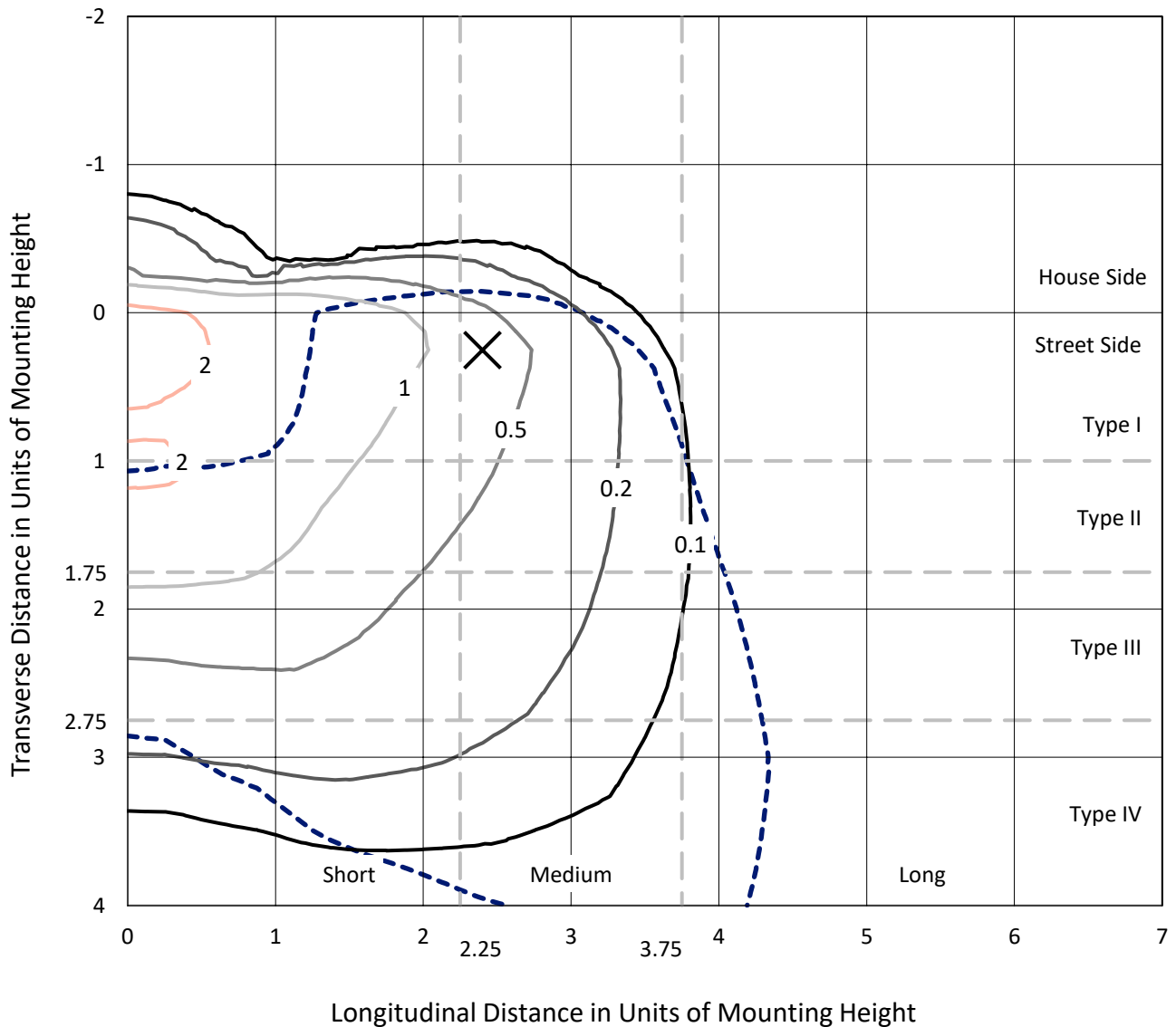
Input Watts (W): 28.8  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

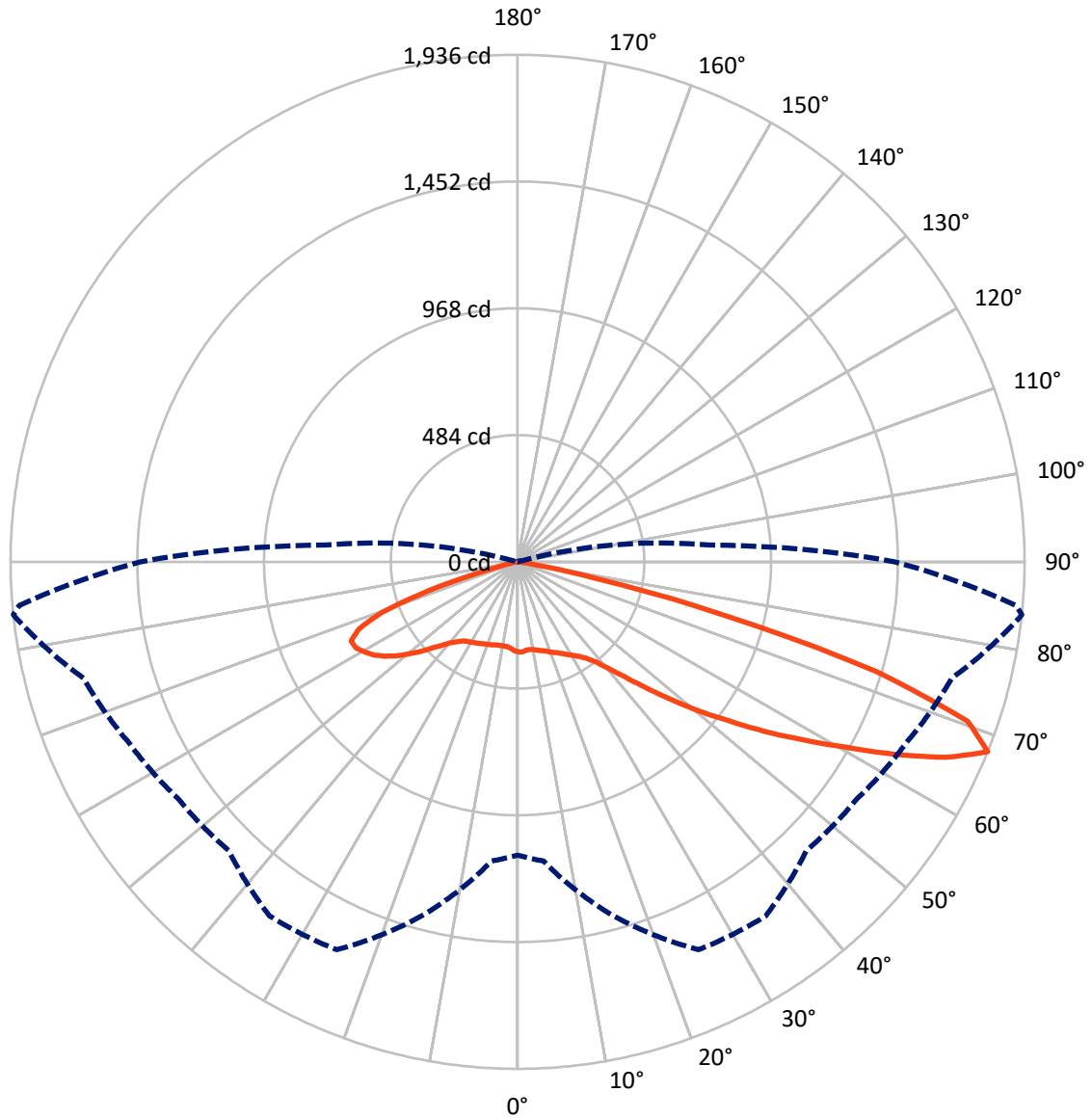
× Max cd  
 - - - 1/2 Max cd



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	240.2	0.0	240.2
	% Fixture	8.7	0.0	8.7
<b>Street Side</b>	Lumens	2518.8	0.0	2518.8
	% Fixture	91.3	0.0	91.3
<b>Total</b>	Lumens	2759.0	0.0	2759.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	30.8	1.1
10°-20°	80.6	2.9
20°-30°	129.1	4.7
30°-40°	185.8	6.7
40°-50°	318.9	11.6
50°-60°	557.2	20.2
60°-70°	797.9	28.9
70°-80°	599.7	21.7
80°-90°	58.9	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°	2759.0	100.0
0°-180°	2759.0	100.0

**Coefficient of Utilization**

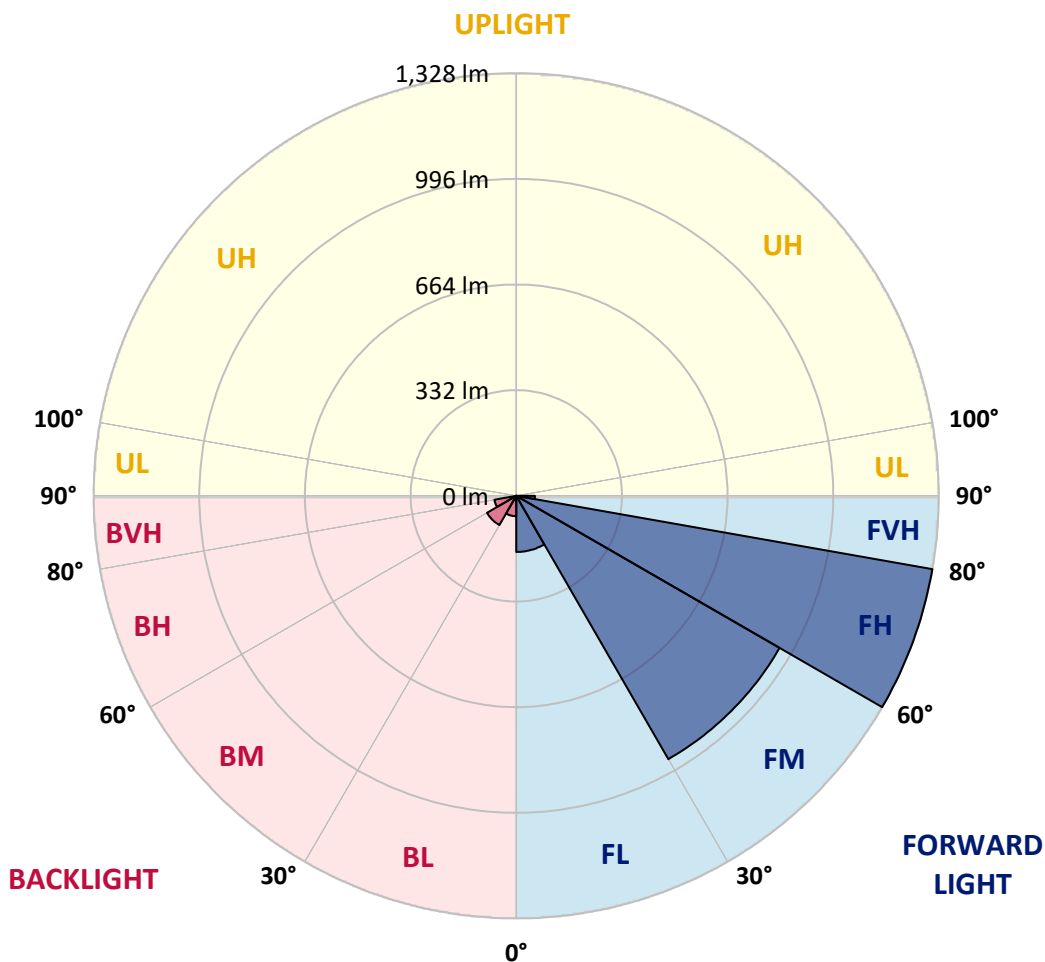


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	176.4	6.4			
FM (30°-60°)	955.7	34.6			
FH (60°-80°)	1328.0	48.1			G1/1800
FVH (80°-90°)	58.7	2.1			G1/100
BL (0°-30°)	64.2	2.3	B0/110		
BM (30°-60°)	106.2	3.9	B0/220		
BH (60°-80°)	69.6	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°	343.7	343.7	343.7	343.7	343.7	343.7	343.7	343.7	343.7	343.7	343.7
2.5°	363.3	365.2	366.1	361.4	361.4	357.7	352.1	350.3	347.5	344.7	343.7
5°	381.9	384.7	383.8	378.2	375.4	368.0	360.5	353.1	345.6	339.1	339.1
7.5°	403.4	404.3	401.5	392.2	386.6	376.3	365.2	356.8	347.5	338.1	336.3
10°	422.0	421.1	417.3	408.0	397.8	384.7	372.6	363.3	352.1	340.9	340.0
12.5°	435.0	436.0	431.3	418.3	408.0	393.1	381.0	371.7	358.6	346.5	343.7
15°	446.2	449.0	443.4	430.4	415.5	402.4	393.1	381.0	366.1	352.1	350.3
17.5°	456.5	457.4	452.7	437.8	423.9	412.7	402.4	391.2	376.3	358.6	356.8
20°	462.0	464.8	462.0	443.4	430.4	422.0	413.6	402.4	385.7	368.9	367.0
22.5°	465.8	468.6	467.6	447.1	436.0	429.4	422.0	411.7	395.9	376.3	374.5
25°	467.6	469.5	471.4	450.9	441.5	438.8	432.2	422.9	408.0	387.5	385.7
27.5°	470.4	472.3	474.2	455.5	451.8	449.0	447.1	439.7	422.0	400.6	397.8
30°	475.1	477.9	479.7	463.9	463.9	466.7	466.7	456.5	436.9	414.5	412.7
32.5°	480.7	481.6	485.3	472.3	476.9	483.5	481.6	471.4	450.9	430.4	427.6
35°	495.6	495.6	502.1	485.3	490.9	496.5	498.4	490.9	472.3	451.8	450.9
37.5°	531.9	531.9	537.5	510.5	509.6	515.1	521.7	521.7	503.0	484.4	482.5
40°	613.9	613.9	613.9	551.5	541.2	547.7	558.0	563.6	547.7	534.7	534.7
42.5°	750.8	751.8	737.8	626.9	583.1	594.3	605.5	617.6	609.2	599.9	598.0
45°	892.4	887.8	885.9	737.8	657.7	652.1	666.1	686.5	689.3	683.8	687.5
47.5°	989.3	994.0	996.7	875.6	762.0	723.8	736.8	765.7	782.5	781.6	787.2
50°	1083.4	1086.2	1089.0	1027.5	899.9	814.2	822.5	861.7	885.0	892.4	896.1
52.5°	1165.4	1157.9	1170.0	1161.6	1046.1	917.6	917.6	962.3	1004.2	1007.0	1006.1
55°	1189.6	1194.2	1230.6	1255.7	1196.1	1044.3	1025.6	1073.1	1117.8	1141.1	1141.1
57.5°	1243.6	1248.3	1292.0	1348.9	1305.1	1169.1	1141.1	1187.7	1236.2	1280.9	1287.4
60°	1314.4	1315.3	1361.9	1448.5	1388.0	1281.8	1258.5	1311.6	1360.0	1436.4	1457.9
62.5°	1352.6	1356.3	1420.6	1534.2	1492.3	1380.5	1375.0	1423.4	1485.8	1619.9	1639.5
65°	1293.9	1318.1	1457.9	1585.5	1577.1	1472.8	1492.3	1531.5	1603.2	1799.7	1818.4
67.5°	1119.7	1146.7	1396.4	1633.9	1650.7	1559.4	1579.9	1636.7	1715.9	1935.7	1909.7
70°	1031.2	1053.6	1247.3	1660.9	1712.2	1656.3	1665.6	1718.7	1742.0	1822.1	1794.1
72.5°	781.6	804.9	1055.4	1568.7	1765.3	1757.8	1734.5	1690.7	1552.9	1433.6	1365.6
75°	345.6	372.6	702.4	1225.9	1633.9	1815.6	1692.6	1447.6	1115.1	814.2	754.5
77.5°	152.8	168.6	272.0	681.0	1227.8	1571.5	1338.6	965.1	559.9	302.8	281.3
80°	49.4	51.2	85.7	238.5	627.9	1040.5	819.8	463.9	172.3	70.8	66.1
82.5°	19.6	21.4	41.0	100.6	259.9	413.6	402.4	167.7	50.3	18.6	18.6
85°	5.6	6.5	20.5	53.1	92.2	116.4	142.5	55.9	27.0	5.6	5.6
87.5°	1.9	1.9	7.5	16.8	17.7	12.1	27.0	21.4	16.8	1.9	1.9
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°	343.7	343.7	343.7	343.7	343.7	343.7	343.7	343.7	343.7	343.7	343.7
2.5°	341.9	340.0	335.4	331.6	329.8	327.0	323.2	321.4	321.4	320.4	317.7
5°	335.4	332.6	324.2	318.6	313.9	303.7	296.2	286.9	277.6	274.8	277.6
7.5°	332.6	327.0	315.8	304.6	285.1	258.0	240.3	220.8	214.3	205.9	206.8
10°	333.5	327.0	311.1	286.0	247.8	207.7	179.8	153.7	140.7	134.1	135.1
12.5°	336.3	328.8	306.5	260.8	205.9	157.4	114.6	94.1	90.4	90.4	90.4
15°	341.9	330.7	299.0	231.0	161.2	104.3	81.0	79.2	82.0	84.8	85.7
17.5°	347.5	336.3	287.8	200.3	117.4	78.2	75.5	75.5	78.2	81.0	82.0
20°	354.0	341.9	272.0	167.7	83.8	73.6	72.7	71.7	73.6	76.4	77.3
22.5°	364.2	347.5	253.4	129.5	72.7	70.8	68.9	68.0	68.9	71.7	72.7
25°	373.5	354.9	233.8	95.9	68.0	66.1	65.2	64.3	64.3	66.1	67.1
27.5°	384.7	363.3	212.4	71.7	62.4	61.5	60.6	59.6	58.7	60.6	61.5
30°	398.7	370.8	189.1	60.6	56.8	55.9	55.0	54.0	53.1	54.0	55.0
32.5°	416.4	381.0	162.1	55.0	52.2	49.4	48.4	48.4	47.5	47.5	48.4
35°	439.7	392.2	133.2	51.2	47.5	44.7	41.9	41.0	41.0	41.0	41.9
37.5°	474.2	412.7	105.3	47.5	43.8	39.1	36.3	33.5	33.5	33.5	33.5
40°	521.7	435.0	82.0	44.7	41.0	34.5	30.7	27.0	25.2	24.2	25.2
42.5°	595.3	468.6	63.3	41.0	39.1	30.7	25.2	20.5	16.8	15.8	16.8
45°	676.3	504.9	50.3	38.2	35.4	26.1	19.6	14.0	10.2	9.3	10.2
47.5°	778.8	550.5	42.9	34.5	30.7	21.4	14.0	7.5	4.7	5.6	5.6
50°	877.5	595.3	39.1	31.7	27.0	17.7	8.4	3.7	1.9	2.8	2.8
52.5°	986.5	642.8	36.3	27.9	23.3	13.0	4.7	0.9	0.0	0.9	0.9
55°	1096.4	685.6	33.5	25.2	18.6	9.3	1.9	0.0	0.0	0.0	0.9
57.5°	1215.7	721.9	30.7	21.4	14.0	5.6	0.9	0.0	0.0	0.0	0.0
60°	1315.3	749.9	27.9	18.6	9.3	2.8	0.0	0.0	0.0	0.0	0.0
62.5°	1406.6	775.0	21.4	14.0	5.6	1.9	0.0	0.0	0.0	0.0	0.0
65°	1467.2	780.6	14.9	9.3	3.7	0.9	0.0	0.0	0.0	0.0	0.0
67.5°	1440.2	732.2	9.3	6.5	1.9	0.9	0.0	0.0	0.0	0.0	0.0
70°	1266.0	614.8	6.5	3.7	0.9	0.9	0.0	0.0	0.0	0.0	0.0
72.5°	885.9	396.8	5.6	2.8	0.9	0.9	0.0	0.0	0.0	0.0	0.0
75°	467.6	143.5	3.7	1.9	0.9	0.9	0.0	0.0	0.0	0.0	0.0
77.5°	165.8	31.7	1.9	0.9	0.0	0.9	0.0	0.0	0.0	0.0	0.0
80°	36.3	6.5	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	10.2	1.9	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)