

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: P595172

Luminaire Tested: **IST-PA1C-830-U-T2R-HSS**

Issue Date: 3/22/2022

Test Information

Test Method: LM-79-08
Report Number: P595172
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2201-510-7)
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-T2R-HSS
Description: IMPACT ELITE LED TRAPEZOID LUMINAIRE
(1) 80 CRI, 3000K, 615mA LIGHT ENGINE WITH 24 LEDS AND TYPE II ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4293 lumens
Efficiency: N/A
Efficacy: 88.9 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B0 - U0 - G1

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

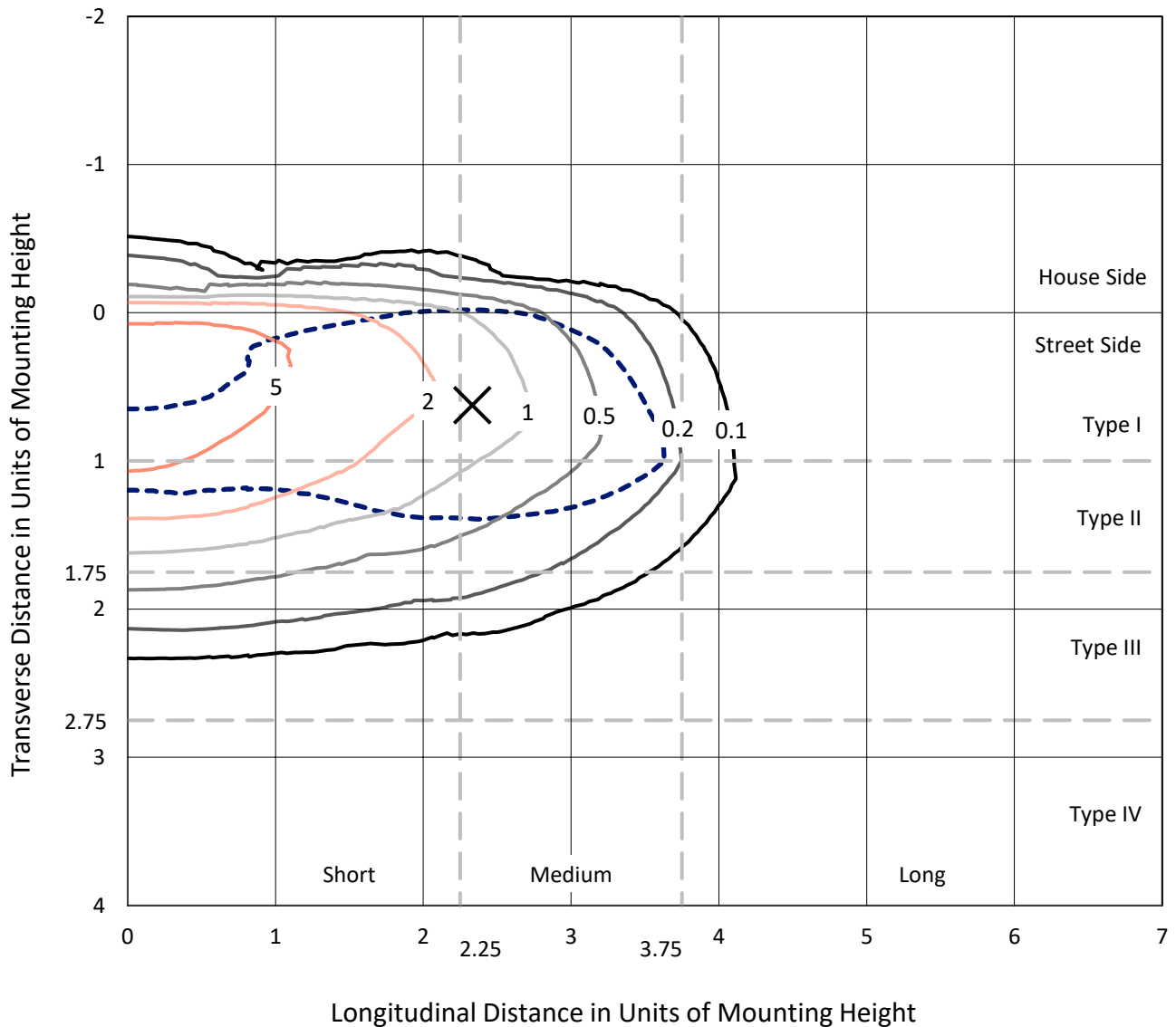




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Iso-Footcandle Lines of Horizontal Illumination

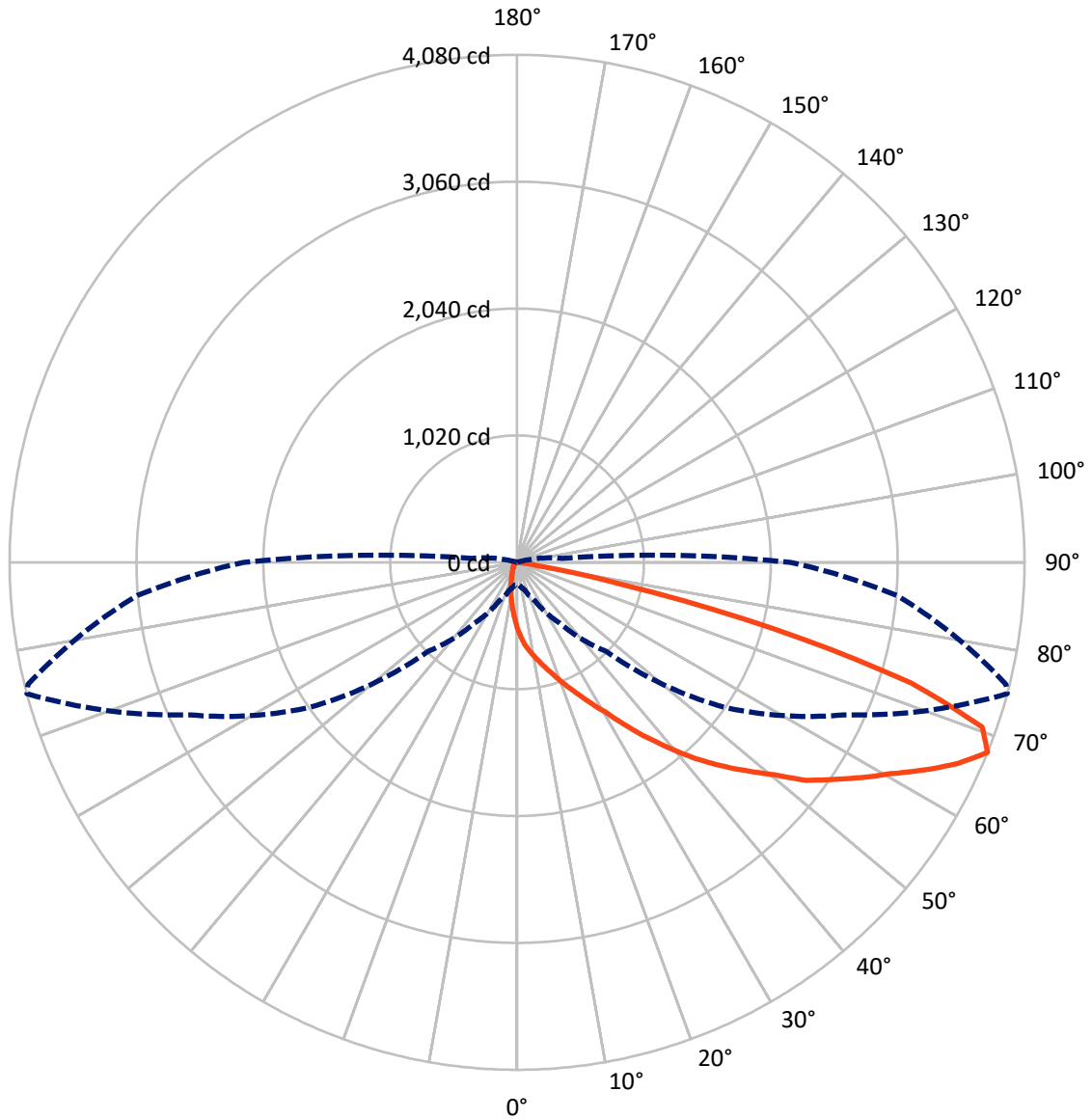
× Max cd
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 8.4 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	216.4	0.0	216.4
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	4076.6	0.0	4076.6
	% Fixture	95.0	0.0	95.0
Total	Lumens	4293.0	0.0	4293.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	48.1	1.1
10°-20°	155.3	3.6
20°-30°	312.1	7.3
30°-40°	590.4	13.8
40°-50°	883.3	20.6
50°-60°	1019.8	23.8
60°-70°	904.0	21.1
70°-80°	365.4	8.5
80°-90°	14.6	0.3
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°	4293.0	100.0
0°-180°	4293.0	100.0

Coefficient of Utilization

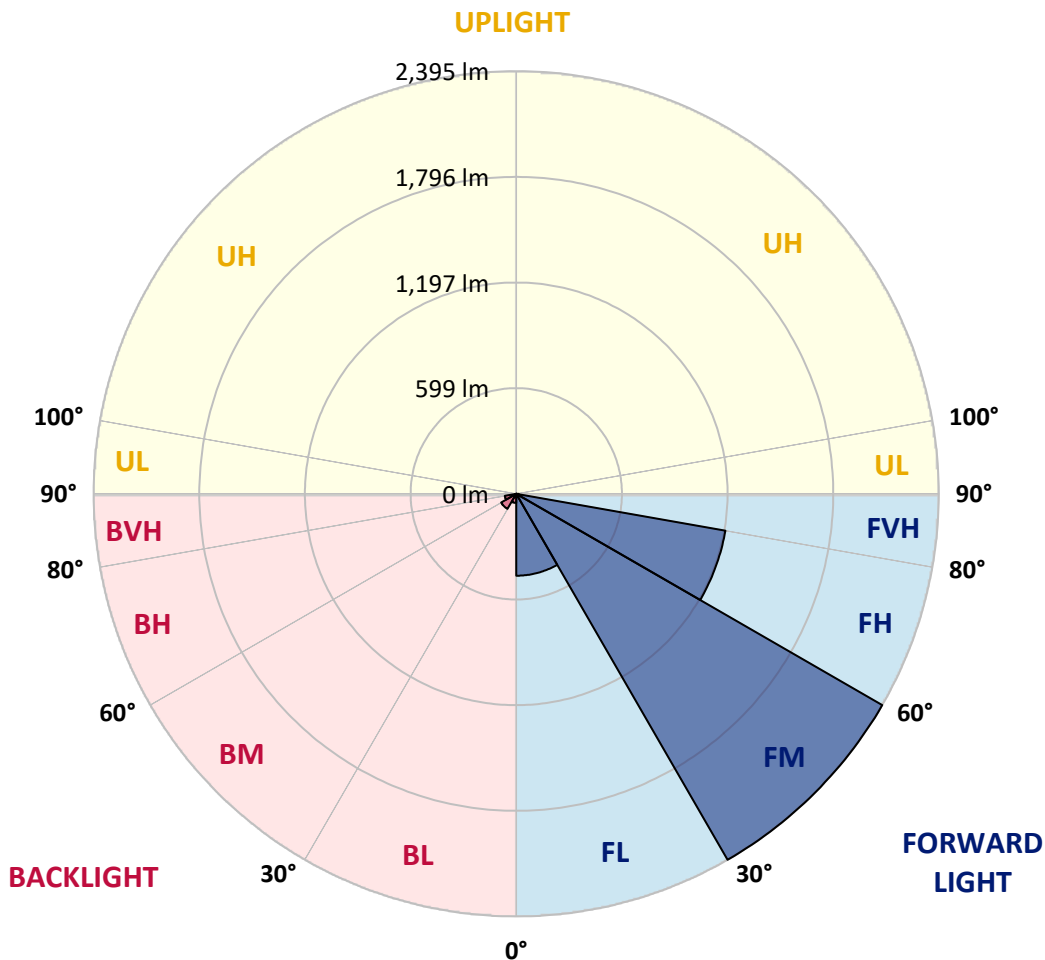


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	464.1	10.8			
FM (30°-60°)	2394.8	55.8			
FH (60°-80°)	1203.7	28.0			G1/1800
FVH (80°-90°)	13.9	0.3			G1/100
BL (0°-30°)	51.4	1.2	B0/110		
BM (30°-60°)	98.7	2.3	B0/220		
BH (60°-80°)	65.6	1.5	B0/110		G0/110
BVH (80°-90°)	0.6	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 II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	533.5	533.5	533.5	533.5	533.5	533.5	533.5	533.5	533.5	533.5	533.5
2.5°	742.3	744.9	739.7	728.1	717.8	693.3	674.0	639.2	601.8	601.8	556.7
5°	829.9	827.3	824.8	815.7	808.0	787.4	761.6	724.2	666.3	661.1	586.4
7.5°	872.4	869.9	864.7	860.8	860.8	846.7	822.2	783.5	719.1	713.9	613.4
10°	922.7	917.5	917.5	907.2	904.7	887.9	875.0	841.5	770.6	764.2	644.3
12.5°	982.0	976.8	978.1	969.1	965.2	947.2	929.1	896.9	826.1	819.6	680.4
15°	1015.5	1012.9	1020.6	1021.9	1024.5	1009.0	992.3	958.8	887.9	878.9	723.0
17.5°	1034.8	1034.8	1043.8	1060.6	1079.9	1070.9	1058.0	1031.0	951.1	945.9	768.1
20°	1072.2	1068.3	1083.8	1099.3	1123.7	1131.5	1127.6	1107.0	1027.1	1011.6	817.0
22.5°	1134.0	1128.9	1143.1	1162.4	1192.0	1194.6	1197.2	1186.9	1104.4	1088.9	868.6
25°	1279.7	1266.8	1253.9	1251.3	1262.9	1273.2	1265.5	1273.2	1192.0	1177.9	924.0
27.5°	1563.2	1541.3	1479.4	1411.1	1363.4	1372.5	1348.0	1362.1	1292.6	1274.5	975.5
30°	1835.1	1813.2	1762.9	1641.8	1532.3	1483.3	1447.2	1442.0	1395.7	1375.0	1034.8
32.5°	2024.5	2010.4	1976.9	1895.7	1759.1	1634.1	1564.5	1540.0	1533.5	1501.3	1110.9
35°	2153.4	2140.5	2117.3	2051.6	1951.1	1811.9	1692.1	1637.9	1686.9	1648.2	1197.2
37.5°	2230.7	2221.7	2195.9	2150.8	2096.7	2005.2	1850.6	1764.2	1841.5	1805.5	1308.0
40°	2287.4	2264.2	2246.2	2211.4	2193.4	2163.7	2031.0	1895.7	2009.1	1971.7	1417.6
42.5°	2292.6	2282.3	2268.1	2247.5	2250.1	2269.4	2223.0	2047.7	2177.9	2143.1	1533.5
45°	2291.3	2281.0	2270.7	2250.1	2262.9	2335.1	2377.6	2207.5	2342.8	2306.8	1656.0
47.5°	2253.9	2246.2	2248.8	2248.8	2265.5	2363.5	2497.5	2369.9	2507.8	2473.0	1804.2
50°	2122.5	2130.2	2181.8	2208.8	2238.5	2364.8	2581.3	2540.0	2685.6	2661.1	1947.2
52.5°	1706.2	1750.0	1958.8	2101.9	2188.2	2339.0	2635.4	2719.1	2911.2	2873.8	2109.6
55°	1304.2	1306.7	1507.8	1840.3	2089.0	2292.6	2666.3	2840.3	3082.6	3061.9	2252.6
57.5°	1058.0	1056.7	1156.0	1454.9	1831.2	2219.1	2674.0	2929.2	3264.3	3225.6	2417.6
60°	864.7	859.6	918.8	1103.1	1496.2	2046.4	2645.7	3001.4	3451.1	3436.9	2590.3
62.5°	625.0	630.2	708.8	851.8	1153.4	1728.1	2585.1	3023.3	3676.6	3662.5	2783.6
65°	359.5	375.0	461.4	613.4	884.0	1351.8	2412.4	3006.5	3897.0	3895.7	2962.7
67.5°	180.4	181.7	228.1	342.8	594.1	1011.6	2031.0	2900.8	4080.0	4051.6	3065.8
70°	116.0	118.6	134.0	176.6	328.6	701.0	1551.6	2601.9	3965.3	3955.0	2915.0
72.5°	88.9	91.5	104.4	116.0	171.4	398.2	1050.3	2022.0	3310.7	3282.3	2273.3
75°	69.6	70.9	83.8	94.1	114.7	186.9	527.1	1260.3	2132.8	2059.3	1293.8
77.5°	55.4	56.7	63.1	74.7	87.6	104.4	155.9	567.0	867.3	774.5	420.1
80°	36.1	37.4	47.7	58.0	74.7	68.3	60.6	163.7	185.6	167.5	74.7
82.5°	20.6	21.9	32.2	46.4	56.7	38.7	34.8	47.7	43.8	42.5	23.2
85°	6.4	6.4	21.9	32.2	25.8	11.6	21.9	16.8	14.2	12.9	7.7
87.5°	1.3	1.3	10.3	11.6	3.9	1.3	2.6	3.9	5.2	6.4	3.9
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°	533.5	533.5	533.5	533.5	533.5	533.5	533.5	533.5	533.5	533.5	533.5
2.5°	534.8	509.0	461.4	420.1	380.2	345.4	320.9	299.0	283.5	279.6	273.2
5°	538.7	488.4	396.9	319.6	252.6	198.5	167.5	146.9	136.6	130.2	130.2
7.5°	542.5	467.8	336.3	233.3	159.8	121.1	101.8	92.8	88.9	87.6	86.3
10°	550.3	452.3	284.8	167.5	109.5	91.5	83.8	79.9	77.3	76.0	76.0
12.5°	563.2	439.4	237.1	123.7	90.2	81.2	76.0	70.9	68.3	67.0	67.0
15°	579.9	430.4	195.9	99.2	82.5	73.5	67.0	61.9	58.0	56.7	56.7
17.5°	603.1	424.0	161.1	87.6	76.0	65.7	58.0	52.8	49.0	47.7	47.7
20°	626.3	424.0	132.7	81.2	69.6	58.0	50.3	43.8	39.9	38.7	38.7
22.5°	657.2	422.7	110.8	74.7	61.9	50.3	42.5	34.8	32.2	30.9	30.9
25°	683.0	422.7	95.4	68.3	54.1	43.8	34.8	28.4	25.8	24.5	24.5
27.5°	713.9	418.8	81.2	60.6	46.4	36.1	28.4	23.2	20.6	19.3	19.3
30°	741.0	413.7	72.2	54.1	39.9	29.6	23.2	18.0	16.8	16.8	16.8
32.5°	786.1	409.8	64.4	46.4	33.5	24.5	18.0	14.2	12.9	12.9	12.9
35°	840.2	409.8	59.3	39.9	28.4	20.6	14.2	11.6	10.3	10.3	10.3
37.5°	911.1	413.7	52.8	34.8	23.2	16.8	11.6	9.0	7.7	7.7	7.7
40°	985.8	422.7	47.7	30.9	20.6	12.9	9.0	6.4	5.2	6.4	6.4
42.5°	1074.8	431.7	42.5	27.1	16.8	10.3	6.4	3.9	2.6	3.9	3.9
45°	1162.4	440.7	39.9	23.2	14.2	7.7	3.9	2.6	1.3	2.6	2.6
47.5°	1270.7	462.6	37.4	20.6	11.6	6.4	2.6	1.3	0.0	1.3	1.3
50°	1395.7	487.1	33.5	16.8	9.0	5.2	2.6	0.0	0.0	0.0	0.0
52.5°	1515.5	507.7	29.6	14.2	7.7	3.9	1.3	0.0	0.0	0.0	0.0
55°	1635.4	520.6	25.8	11.6	6.4	3.9	1.3	0.0	0.0	0.0	0.0
57.5°	1764.2	528.4	23.2	10.3	5.2	2.6	1.3	0.0	0.0	0.0	0.0
60°	1907.3	528.4	19.3	9.0	3.9	2.6	1.3	0.0	0.0	0.0	0.0
62.5°	2065.8	512.9	18.0	7.7	3.9	2.6	1.3	0.0	0.0	0.0	0.0
65°	2194.6	457.5	15.5	6.4	3.9	2.6	1.3	0.0	0.0	0.0	0.0
67.5°	2199.8	362.1	14.2	5.2	3.9	2.6	1.3	0.0	0.0	0.0	0.0
70°	1961.4	247.4	11.6	3.9	2.6	2.6	1.3	0.0	0.0	0.0	0.0
72.5°	1467.8	132.7	10.3	3.9	2.6	1.3	1.3	0.0	0.0	0.0	0.0
75°	791.3	51.5	6.4	3.9	2.6	1.3	1.3	0.0	0.0	0.0	0.0
77.5°	230.7	25.8	3.9	2.6	2.6	1.3	1.3	0.0	0.0	0.0	0.0
80°	42.5	12.9	2.6	2.6	2.6	1.3	0.0	0.0	0.0	0.0	0.0
82.5°	11.6	5.2	1.3	1.3	1.3	1.3	0.0	0.0	0.0	0.0	0.0
85°	5.2	2.6	1.3	1.3	1.3	1.3	0.0	0.0	0.0	0.0	0.0
87.5°	2.6	1.3	1.3	1.3	1.3	1.3	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)