

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: P595028

Luminaire Tested: **IST-PA1B-727-U-T2R-HSS**

Issue Date: 3/22/2022

Test Information

Test Method: LM-79-08
Report Number: P595028
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-PA1B-727-U-T2R-HSS
Description: IMPACT ELITE LED TRAPEZOID LUMINAIRE
(1) 70 CRI, 2700K, 450mA 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: 3495 lumens
Efficiency: N/A
Efficacy: 96.0 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

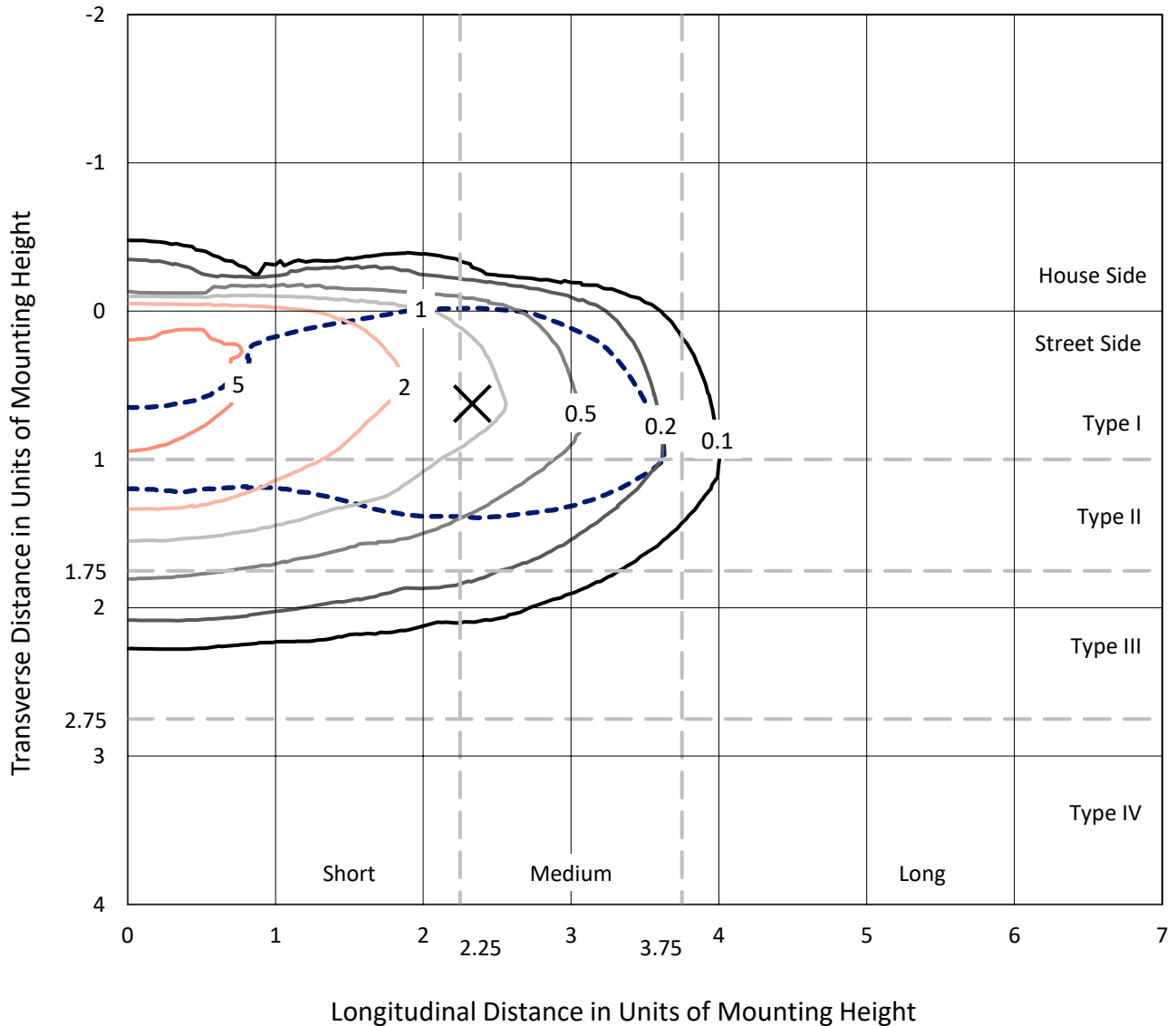
Input Watts (W): 36.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

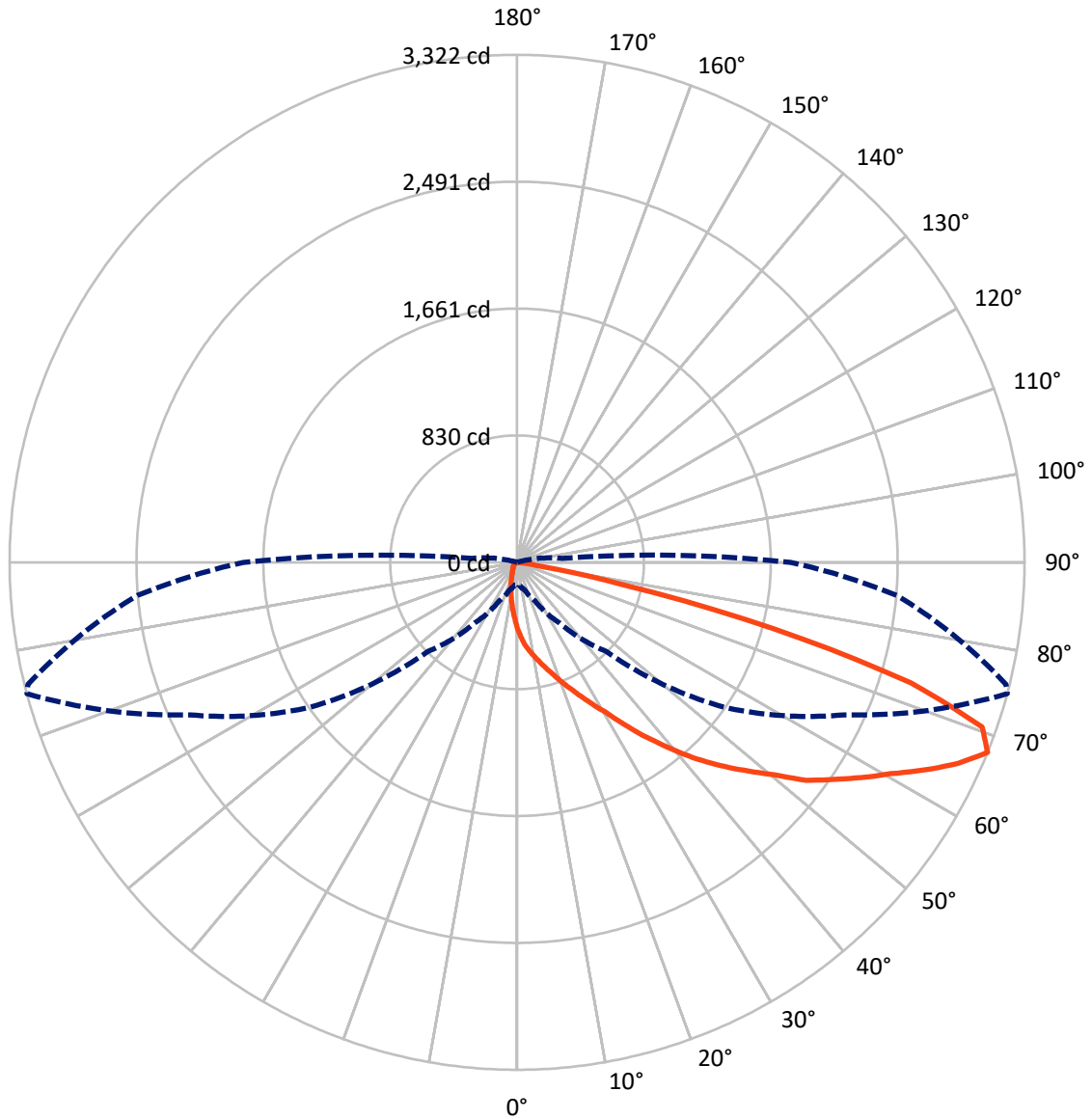
× Max cd
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 6.9 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	176.2	0.0	176.2
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	3318.8	0.0	3318.8
	% Fixture	95.0	0.0	95.0
Total	Lumens	3495.0	0.0	3495.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	39.2	1.1
10°-20°	126.4	3.6
20°-30°	254.1	7.3
30°-40°	480.7	13.8
40°-50°	719.1	20.6
50°-60°	830.2	23.8
60°-70°	735.9	21.1
70°-80°	297.4	8.5
80°-90°	11.8	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°	3495.0	100.0
0°-180°	3495.0	100.0

Coefficient of Utilization

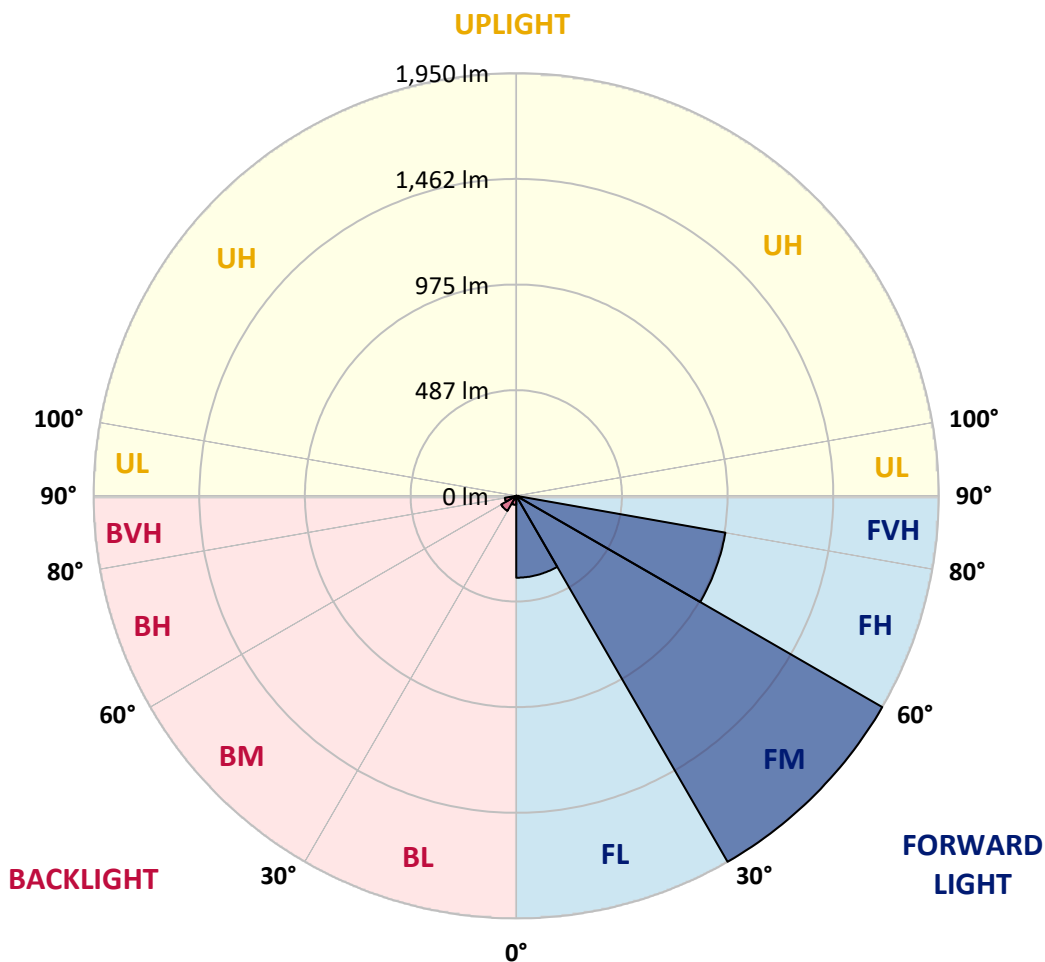


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	377.8	10.8			
FM (30°-60°)	1949.7	55.8			
FH (60°-80°)	980.0	28.0			G1/1800
FVH (80°-90°)	11.3	0.3			G1/100
BL (0°-30°)	41.9	1.2	B0/110		
BM (30°-60°)	80.4	2.3	B0/220		
BH (60°-80°)	53.4	1.5	B0/110		G0/110
BVH (80°-90°)	0.5	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°	434.3	434.3	434.3	434.3	434.3	434.3	434.3	434.3	434.3	434.3	434.3
2.5°	604.3	606.4	602.2	592.8	584.4	564.4	548.7	520.4	490.0	490.0	453.2
5°	675.6	673.6	671.5	664.1	657.8	641.0	620.0	589.6	542.4	538.2	477.4
7.5°	710.3	708.2	704.0	700.8	700.8	689.3	669.4	637.9	585.4	581.2	499.4
10°	751.2	747.0	747.0	738.6	736.5	722.9	712.4	685.1	627.4	622.1	524.6
12.5°	799.4	795.3	796.3	789.0	785.8	771.1	756.4	730.2	672.5	667.3	553.9
15°	826.7	824.6	830.9	832.0	834.1	821.5	807.8	780.6	722.9	715.5	588.6
17.5°	842.5	842.5	849.8	863.4	879.2	871.8	861.3	839.3	774.3	770.1	625.3
20°	872.9	869.7	882.3	894.9	914.9	921.1	918.0	901.2	836.2	823.6	665.2
22.5°	923.2	919.1	930.6	946.3	970.5	972.6	974.7	966.3	899.1	886.5	707.1
25°	1041.8	1031.3	1020.8	1018.7	1028.2	1036.6	1030.3	1036.6	970.5	958.9	752.2
27.5°	1272.6	1254.8	1204.4	1148.8	1110.0	1117.3	1097.4	1108.9	1052.3	1037.6	794.2
30°	1494.0	1476.1	1435.2	1336.6	1247.4	1207.6	1178.2	1174.0	1136.2	1119.4	842.5
32.5°	1648.2	1636.7	1609.4	1543.3	1432.1	1330.3	1273.7	1253.7	1248.5	1222.3	904.4
35°	1753.1	1742.6	1723.7	1670.2	1588.4	1475.1	1377.5	1333.5	1373.3	1341.9	974.7
37.5°	1816.1	1808.7	1787.7	1751.0	1707.0	1632.5	1506.6	1436.3	1499.2	1469.9	1064.9
40°	1862.2	1843.3	1828.7	1800.3	1785.6	1761.5	1653.5	1543.3	1635.6	1605.2	1154.1
42.5°	1866.4	1858.0	1846.5	1829.7	1831.8	1847.5	1809.8	1667.1	1773.1	1744.7	1248.5
45°	1865.4	1857.0	1848.6	1831.8	1842.3	1901.1	1935.7	1797.2	1907.3	1878.0	1348.2
47.5°	1835.0	1828.7	1830.8	1830.8	1844.4	1924.1	2033.2	1929.4	2041.6	2013.3	1468.8
50°	1727.9	1734.2	1776.2	1798.2	1822.4	1925.2	2101.4	2067.9	2186.4	2166.5	1585.3
52.5°	1389.1	1424.7	1594.7	1711.2	1781.4	1904.2	2145.5	2213.7	2370.0	2339.6	1717.5
55°	1061.7	1063.8	1227.5	1498.2	1700.7	1866.4	2170.7	2312.3	2509.6	2492.8	1833.9
57.5°	861.3	860.3	941.1	1184.5	1490.8	1806.6	2177.0	2384.7	2657.5	2626.0	1968.2
60°	704.0	699.8	748.0	898.1	1218.1	1666.0	2153.9	2443.5	2809.6	2798.1	2108.8
62.5°	508.8	513.0	577.0	693.5	939.0	1406.9	2104.6	2461.3	2993.2	2981.7	2266.2
65°	292.7	305.3	375.6	499.4	719.7	1100.6	1964.0	2447.7	3172.6	3171.6	2412.0
67.5°	146.9	147.9	185.7	279.1	483.7	823.6	1653.5	2361.6	3321.6	3298.5	2495.9
70°	94.4	96.5	109.1	143.7	267.5	570.7	1263.2	2118.2	3228.2	3219.8	2373.2
72.5°	72.4	74.5	85.0	94.4	139.5	324.2	855.1	1646.1	2695.3	2672.2	1850.7
75°	56.7	57.7	68.2	76.6	93.4	152.1	429.1	1026.1	1736.3	1676.5	1053.3
77.5°	45.1	46.2	51.4	60.9	71.3	85.0	126.9	461.6	706.1	630.5	342.0
80°	29.4	30.4	38.8	47.2	60.9	55.6	49.3	133.2	151.1	136.4	60.9
82.5°	16.8	17.8	26.2	37.8	46.2	31.5	28.3	38.8	35.7	34.6	18.9
85°	5.2	5.2	17.8	26.2	21.0	9.4	17.8	13.6	11.5	10.5	6.3
87.5°	1.0	1.0	8.4	9.4	3.1	1.0	2.1	3.1	4.2	5.2	3.1
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°	434.3	434.3	434.3	434.3	434.3	434.3	434.3	434.3	434.3	434.3	434.3
2.5°	435.4	414.4	375.6	342.0	309.5	281.2	261.2	243.4	230.8	227.7	222.4
5°	438.5	397.6	323.1	260.2	205.6	161.6	136.4	119.6	111.2	106.0	106.0
7.5°	441.7	380.8	273.8	189.9	130.1	98.6	82.9	75.5	72.4	71.3	70.3
10°	448.0	368.2	231.9	136.4	89.2	74.5	68.2	65.0	62.9	61.9	61.9
12.5°	458.5	357.8	193.0	100.7	73.4	66.1	61.9	57.7	55.6	54.6	54.6
15°	472.1	350.4	159.5	80.8	67.1	59.8	54.6	50.4	47.2	46.2	46.2
17.5°	491.0	345.2	131.1	71.3	61.9	53.5	47.2	43.0	39.9	38.8	38.8
20°	509.9	345.2	108.1	66.1	56.7	47.2	40.9	35.7	32.5	31.5	31.5
22.5°	535.1	344.1	90.2	60.9	50.4	40.9	34.6	28.3	26.2	25.2	25.2
25°	556.0	344.1	77.6	55.6	44.1	35.7	28.3	23.1	21.0	19.9	19.9
27.5°	581.2	341.0	66.1	49.3	37.8	29.4	23.1	18.9	16.8	15.7	15.7
30°	603.3	336.8	58.8	44.1	32.5	24.1	18.9	14.7	13.6	13.6	13.6
32.5°	640.0	333.6	52.5	37.8	27.3	19.9	14.7	11.5	10.5	10.5	10.5
35°	684.0	333.6	48.3	32.5	23.1	16.8	11.5	9.4	8.4	8.4	8.4
37.5°	741.7	336.8	43.0	28.3	18.9	13.6	9.4	7.3	6.3	6.3	6.3
40°	802.6	344.1	38.8	25.2	16.8	10.5	7.3	5.2	4.2	5.2	5.2
42.5°	875.0	351.5	34.6	22.0	13.6	8.4	5.2	3.1	2.1	3.1	3.1
45°	946.3	358.8	32.5	18.9	11.5	6.3	3.1	2.1	1.0	2.1	2.1
47.5°	1034.5	376.6	30.4	16.8	9.4	5.2	2.1	1.0	0.0	1.0	1.0
50°	1136.2	396.6	27.3	13.6	7.3	4.2	2.1	0.0	0.0	0.0	0.0
52.5°	1233.8	413.4	24.1	11.5	6.3	3.1	1.0	0.0	0.0	0.0	0.0
55°	1331.4	423.9	21.0	9.4	5.2	3.1	1.0	0.0	0.0	0.0	0.0
57.5°	1436.3	430.1	18.9	8.4	4.2	2.1	1.0	0.0	0.0	0.0	0.0
60°	1552.7	430.1	15.7	7.3	3.1	2.1	1.0	0.0	0.0	0.0	0.0
62.5°	1681.8	417.6	14.7	6.3	3.1	2.1	1.0	0.0	0.0	0.0	0.0
65°	1786.7	372.4	12.6	5.2	3.1	2.1	1.0	0.0	0.0	0.0	0.0
67.5°	1790.9	294.8	11.5	4.2	3.1	2.1	1.0	0.0	0.0	0.0	0.0
70°	1596.8	201.4	9.4	3.1	2.1	2.1	1.0	0.0	0.0	0.0	0.0
72.5°	1195.0	108.1	8.4	3.1	2.1	1.0	1.0	0.0	0.0	0.0	0.0
75°	644.2	42.0	5.2	3.1	2.1	1.0	1.0	0.0	0.0	0.0	0.0
77.5°	187.8	21.0	3.1	2.1	2.1	1.0	1.0	0.0	0.0	0.0	0.0
80°	34.6	10.5	2.1	2.1	2.1	1.0	0.0	0.0	0.0	0.0	0.0
82.5°	9.4	4.2	1.0	1.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0
85°	4.2	2.1	1.0	1.0	1.0	1.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.1	1.0	1.0	1.0	1.0	1.0	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)