

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: P595112

Luminaire Tested: **IST-PA1C-727-U-T2U**

Issue Date: 3/22/2022

Test Information

Test Method: LM-79-08
Report Number: P595112
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2201-510-8)
Test Lab: INNOVATION CENTER
Issue Date: 3/22/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: IST-PA1C-727-U-T2U
Description: IMPACT ELITE LED TRAPEZOID LUMINAIRE
(1) 70 CRI, 2700K, 615mA LIGHT ENGINE WITH 24 LEDS AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5593 lumens
Efficiency: N/A
Efficacy: 115.8 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

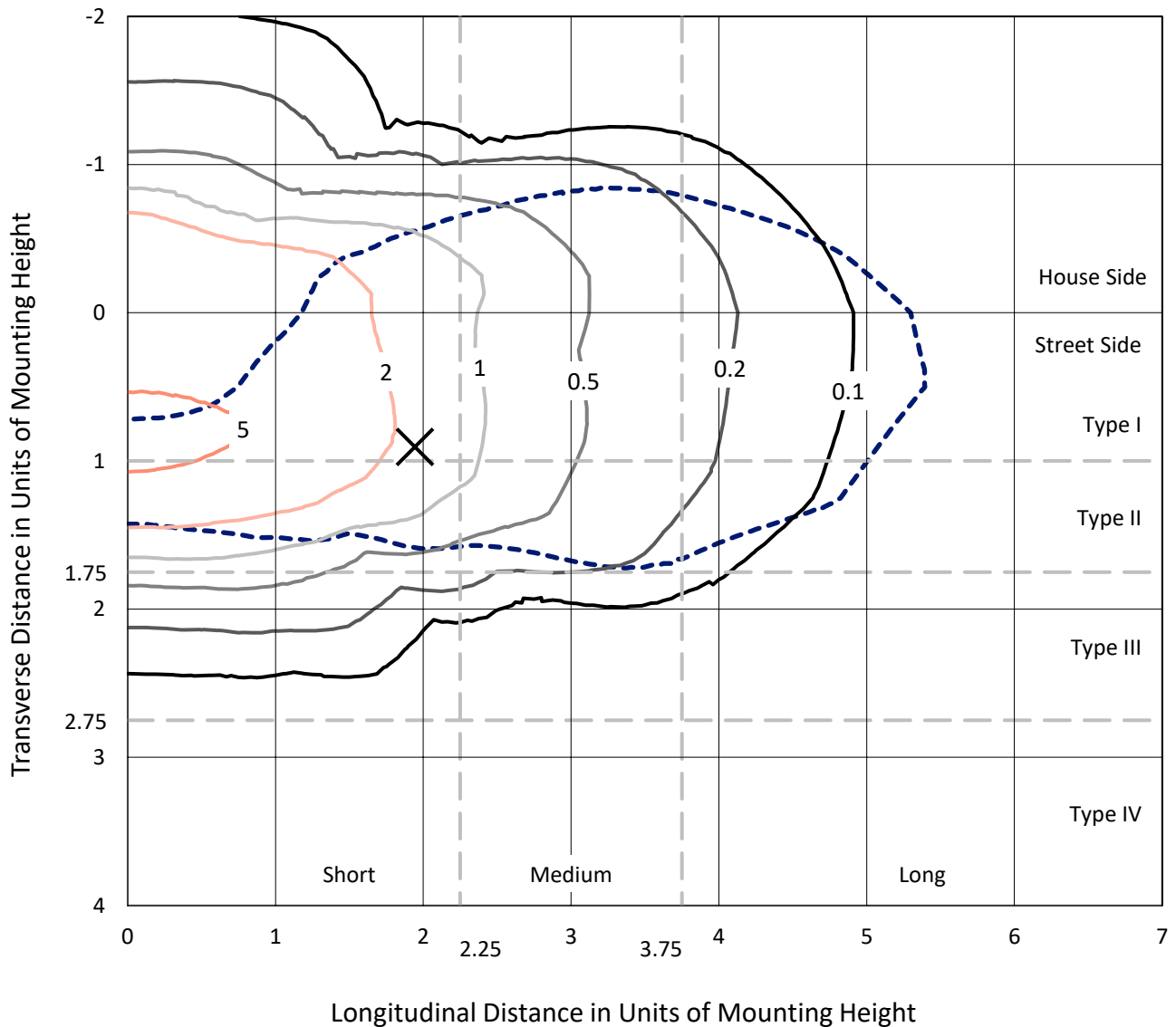
Input Watts (W): 48.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

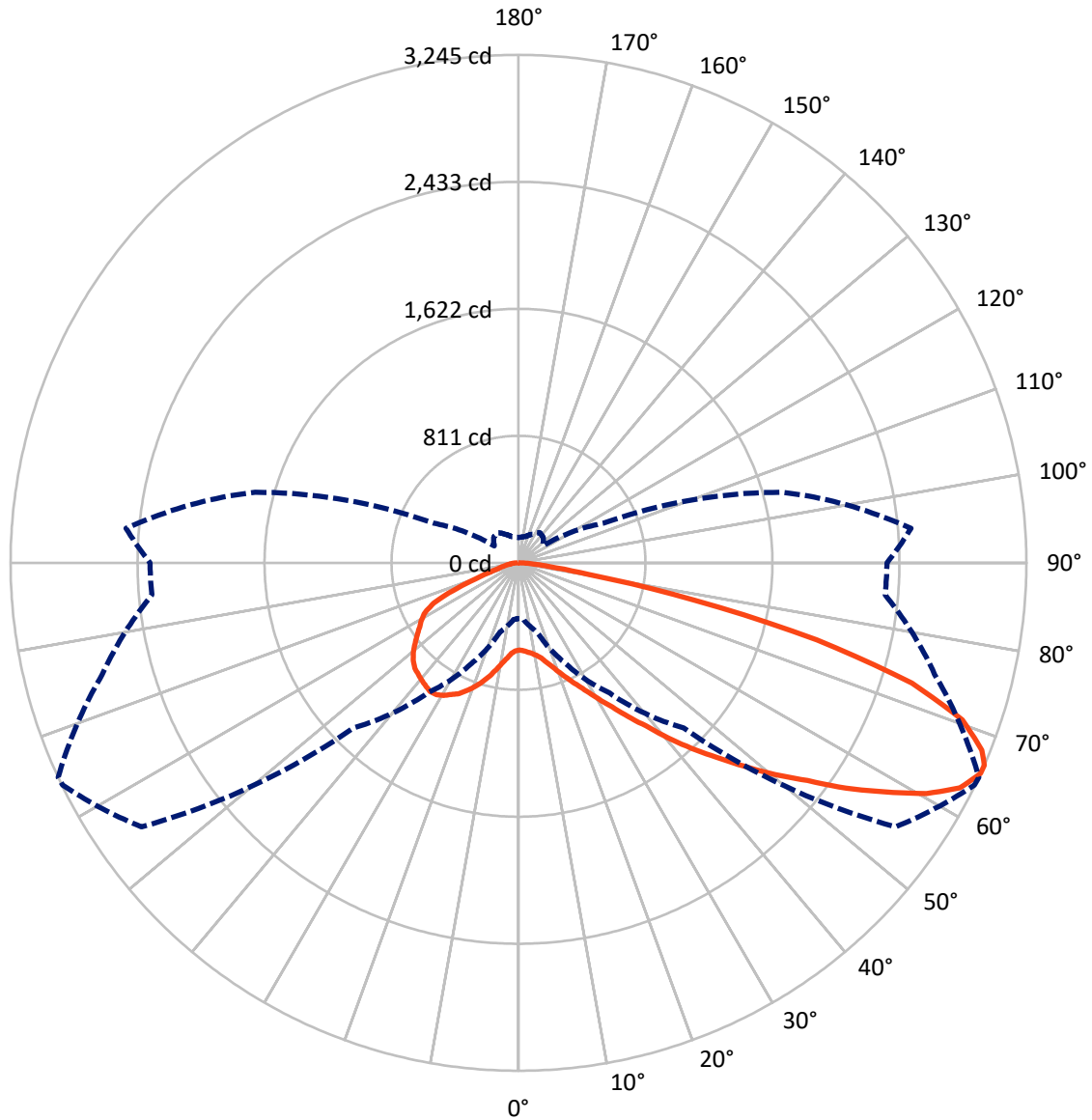
✕ Max cd
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 6.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1698.3	0.0	1698.3
	% Fixture	30.4	0.0	30.4
Street Side	Lumens	3894.7	0.0	3894.7
	% Fixture	69.6	0.0	69.6
Total	Lumens	5593.0	0.0	5593.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	56.9	1.0
10°-20°	198.2	3.5
20°-30°	388.2	6.9
30°-40°	634.3	11.3
40°-50°	1006.9	18.0
50°-60°	1295.0	23.2
60°-70°	1167.8	20.9
70°-80°	724.3	13.0
80°-90°	121.4	2.2
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°	5593.0	100.0
0°-180°	5593.0	100.0

Coefficient of Utilization



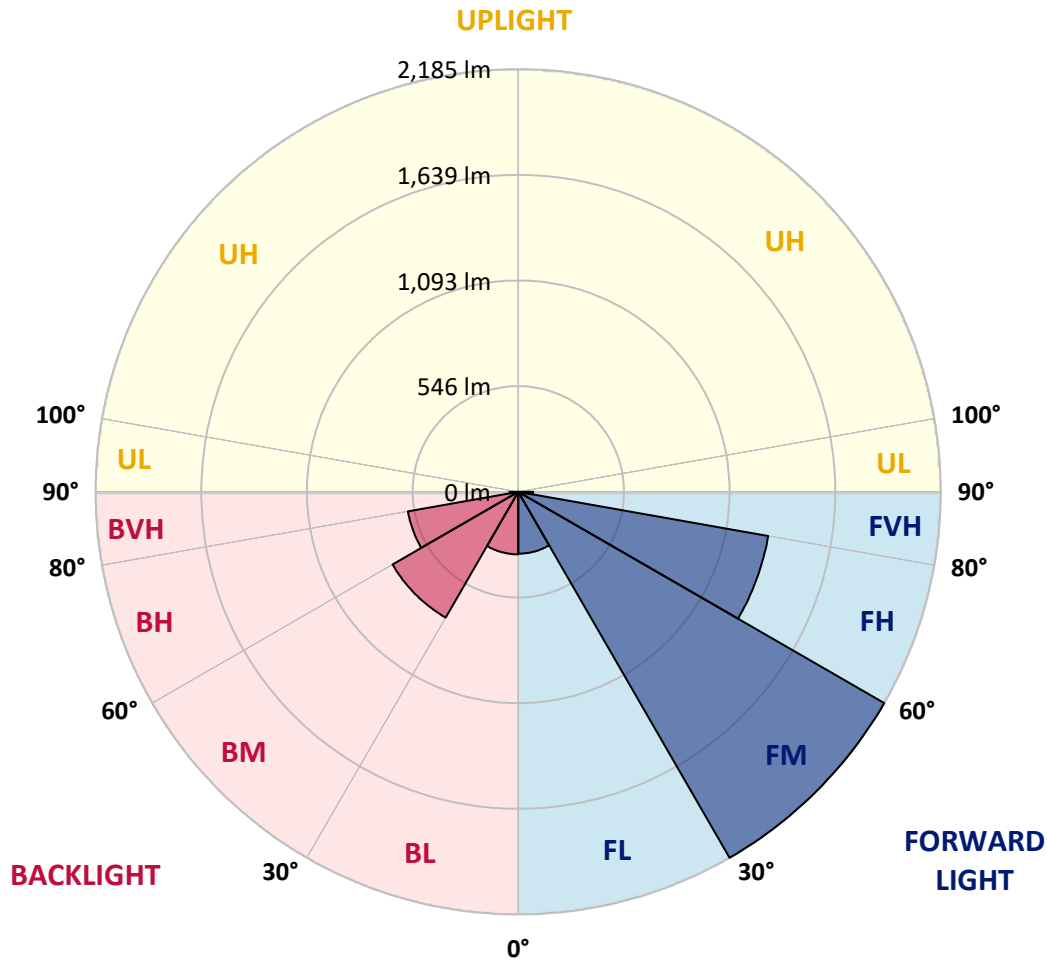
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	319.8	5.7			
FM (30°-60°)	2185.4	39.1			
FH (60°-80°)	1312.7	23.5			G1/1800
FVH (80°-90°)	76.8	1.4			G1/100
BL (0°-30°)	323.5	5.8	B1/500		
BM (30°-60°)	750.8	13.4	B1/1000		
BH (60°-80°)	579.5	10.4	B2/1000		G2/1000
BVH (80°-90°)	44.6	0.8			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	557.5	557.5	557.5	557.5	557.5	557.5	557.5	557.5	557.5	557.5	557.5
2.5°	558.8	560.2	561.6	558.8	561.6	562.9	560.2	560.2	561.6	558.8	558.8
5°	554.8	556.1	558.8	560.2	565.6	568.3	569.7	569.7	571.1	569.7	571.1
7.5°	543.9	543.9	549.4	552.1	560.2	569.7	575.1	583.3	583.3	584.6	588.7
10°	554.8	554.8	558.8	562.9	569.7	577.8	586.0	595.5	598.2	607.7	613.1
12.5°	571.1	573.8	579.2	584.6	592.8	602.3	609.0	618.5	619.9	629.4	640.2
15°	598.2	600.9	603.6	610.4	621.2	633.4	645.7	652.4	655.2	660.6	668.7
17.5°	638.9	641.6	642.9	647.0	655.2	671.4	689.1	694.5	697.2	697.2	704.0
20°	708.1	706.7	704.0	695.8	695.8	710.8	735.2	744.7	747.4	742.0	737.9
22.5°	788.1	786.7	775.9	766.4	759.6	762.3	786.7	803.0	801.6	790.8	774.5
25°	892.5	895.2	877.6	853.2	832.8	827.4	842.3	858.6	861.3	841.0	813.9
27.5°	1017.3	1013.2	1003.8	964.4	925.1	900.7	908.8	926.4	927.8	906.1	862.7
30°	1163.8	1157.0	1132.6	1091.9	1030.9	997.0	990.2	1005.1	1009.2	972.6	910.2
32.5°	1326.6	1319.8	1288.6	1226.2	1159.7	1102.8	1081.1	1101.4	1098.7	1056.7	969.8
35°	1523.3	1521.9	1464.9	1387.6	1303.5	1227.6	1197.7	1197.7	1205.9	1143.5	1045.8
37.5°	1786.4	1797.3	1713.2	1592.4	1474.4	1372.7	1322.5	1319.8	1321.2	1253.3	1131.3
40°	2023.8	2019.7	1970.9	1858.3	1686.0	1555.8	1481.2	1464.9	1469.0	1382.2	1242.5
42.5°	2160.8	2164.8	2152.6	2103.8	1953.2	1789.1	1661.6	1618.2	1619.6	1511.1	1348.3
45°	2246.2	2250.3	2248.9	2273.4	2213.7	2059.0	1877.3	1776.9	1771.5	1657.5	1473.1
47.5°	2295.1	2297.8	2315.4	2365.6	2414.4	2379.2	2116.0	1953.2	1942.4	1794.5	1597.9
50°	2240.8	2242.2	2312.7	2432.1	2551.4	2658.6	2360.2	2128.2	2125.5	1946.5	1719.9
52.5°	1956.0	1980.4	2136.4	2385.9	2653.2	2856.6	2642.3	2334.4	2311.3	2090.2	1842.0
55°	1596.5	1607.4	1786.4	2103.8	2634.2	2978.7	2855.3	2556.9	2540.6	2250.3	1961.4
57.5°	1246.6	1257.4	1470.4	1734.9	2343.9	2971.9	3005.8	2796.9	2760.3	2390.0	2080.7
60°	804.4	838.3	1085.1	1410.7	1897.6	2765.7	3081.8	3027.5	2993.6	2528.4	2182.5
62.5°	546.6	552.1	706.7	1045.8	1420.2	2247.6	3076.4	3170.0	3164.5	2666.7	2284.2
65°	355.4	363.5	457.1	708.1	1016.0	1492.1	2940.7	3239.1	3244.6	2752.2	2350.7
66°	301.1	306.6	378.4	595.5	889.8	1182.8	2821.4	3233.7	3244.6	2791.5	2371.0
67.5°	261.8	265.9	302.5	439.5	727.0	850.5	2510.7	3161.8	3193.0	2828.1	2396.8
70°	225.2	230.6	264.5	299.8	519.5	496.5	1589.7	2977.3	3008.5	2845.8	2413.1
72.5°	185.8	189.9	223.8	271.3	377.1	333.7	701.3	2548.7	2627.4	2780.7	2387.3
75°	146.5	149.2	180.4	226.5	288.9	260.4	305.2	1869.1	1968.2	2451.1	2286.9
77.5°	113.9	115.3	139.7	176.3	264.5	202.1	188.5	910.2	1151.6	1893.6	2014.3
80°	78.7	81.4	103.1	132.9	194.0	160.1	126.1	355.4	451.7	1257.4	1527.3
82.5°	51.5	52.9	70.5	100.4	128.9	153.3	82.7	172.3	189.9	579.2	661.9
85°	35.3	35.3	50.2	62.4	88.2	101.7	54.3	90.9	99.0	219.7	80.0
87.5°	17.6	17.6	24.4	32.6	42.0	39.3	32.6	32.6	32.6	71.9	23.1
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°	557.5	557.5	557.5	557.5	557.5	557.5	557.5	557.5	557.5	557.5	557.5
2.5°	560.2	560.2	561.6	562.9	564.3	564.3	565.6	565.6	564.3	565.6	567.0
5°	572.4	573.8	576.5	580.5	587.3	594.1	600.9	605.0	609.0	610.4	607.7
7.5°	591.4	594.1	603.6	614.5	625.3	641.6	651.1	656.5	659.2	661.9	659.2
10°	615.8	621.2	634.8	653.8	672.8	693.1	704.0	712.1	713.5	716.2	713.5
12.5°	644.3	653.8	674.1	701.3	724.3	744.7	752.8	747.4	735.2	729.8	728.4
15°	678.2	687.7	716.2	750.1	777.2	786.7	774.5	756.9	743.3	742.0	740.6
17.5°	708.1	721.6	761.0	796.2	822.0	812.5	779.9	769.1	765.0	770.4	769.1
20°	746.0	756.9	796.2	839.6	853.2	816.6	793.5	786.7	782.7	782.7	779.9
22.5°	777.2	785.4	832.8	880.3	872.2	819.3	803.0	789.4	775.9	774.5	770.4
25°	813.9	816.6	866.8	918.3	874.9	822.0	793.5	770.4	756.9	752.8	754.2
27.5°	847.8	854.5	898.0	944.1	868.1	807.1	761.0	731.1	710.8	709.4	709.4
30°	891.2	891.2	930.5	972.6	853.2	769.1	708.1	664.6	648.4	647.0	644.3
32.5°	940.0	931.9	969.8	992.9	820.6	717.5	636.2	587.3	561.6	556.1	552.1
35°	1007.8	990.2	1017.3	997.0	788.1	644.3	545.3	489.7	470.7	462.5	462.5
37.5°	1086.5	1060.7	1089.2	984.8	737.9	558.8	450.3	408.3	387.9	375.7	379.8
40°	1178.7	1146.2	1162.5	971.2	683.6	463.9	371.7	345.9	321.5	305.2	305.2
42.5°	1287.2	1233.0	1245.2	957.6	606.3	381.2	321.5	303.8	284.8	268.6	272.6
45°	1391.7	1338.8	1326.6	944.1	524.9	325.5	301.1	288.9	271.3	252.3	252.3
47.5°	1512.4	1444.6	1398.5	919.7	444.9	307.9	306.6	288.9	255.0	227.9	225.2
50°	1626.3	1564.0	1463.6	883.0	400.1	322.8	305.2	263.1	230.6	213.0	211.6
52.5°	1747.1	1682.0	1516.5	838.3	377.1	316.0	280.8	241.4	217.0	199.4	195.3
55°	1866.4	1832.5	1564.0	794.9	340.5	294.3	260.4	227.9	202.1	185.8	183.1
57.5°	2002.1	1988.5	1604.6	751.5	283.5	267.2	245.5	218.4	194.0	181.8	180.4
60°	2120.1	2167.6	1653.5	718.9	241.4	246.9	238.7	217.0	199.4	185.8	185.8
62.5°	2244.9	2339.8	1696.9	676.9	210.2	234.7	240.1	215.7	192.6	180.4	180.4
65°	2353.4	2516.2	1741.6	599.5	188.5	225.2	236.0	200.8	173.6	164.1	161.4
66°	2399.5	2566.3	1755.2	552.1	180.4	218.4	229.2	192.6	165.5	157.3	156.0
67.5°	2453.8	2645.0	1771.5	450.3	168.2	203.5	214.3	180.4	151.9	146.5	143.8
70°	2529.7	2661.3	1762.0	294.3	146.5	175.0	191.3	161.4	135.6	131.6	127.5
72.5°	2537.9	2550.1	1667.0	185.8	127.5	150.6	168.2	145.1	119.4	115.3	112.6
75°	2403.6	2259.8	1410.7	132.9	112.6	132.9	147.8	126.1	99.0	93.6	90.9
77.5°	2052.3	1793.2	1014.6	99.0	97.7	113.9	123.4	109.9	82.7	78.7	77.3
80°	1440.5	1216.7	508.7	74.6	77.3	94.9	103.1	92.2	69.2	63.8	61.0
82.5°	583.3	516.8	175.0	55.6	58.3	71.9	88.2	76.0	52.9	46.1	40.7
85°	66.5	112.6	76.0	38.0	39.3	48.8	59.7	46.1	31.2	25.8	21.7
87.5°	13.6	24.4	27.1	14.9	13.6	19.0	27.1	16.3	10.9	4.1	5.4
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)