

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: P595031

Luminaire Tested: **IST-PA1B-727-U-T2U**

Issue Date: 3/22/2022

Test Information

Test Method: LM-79-08
Report Number: P595031
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-PA1B-727-U-T2U
Description: IMPACT ELITE LED TRAPEZOID LUMINAIRE
(1) 70 CRI, 2700K, 450mA LIGHT ENGINE WITH 24 LEDS AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4325 lumens
Efficiency: N/A
Efficacy: 118.8 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

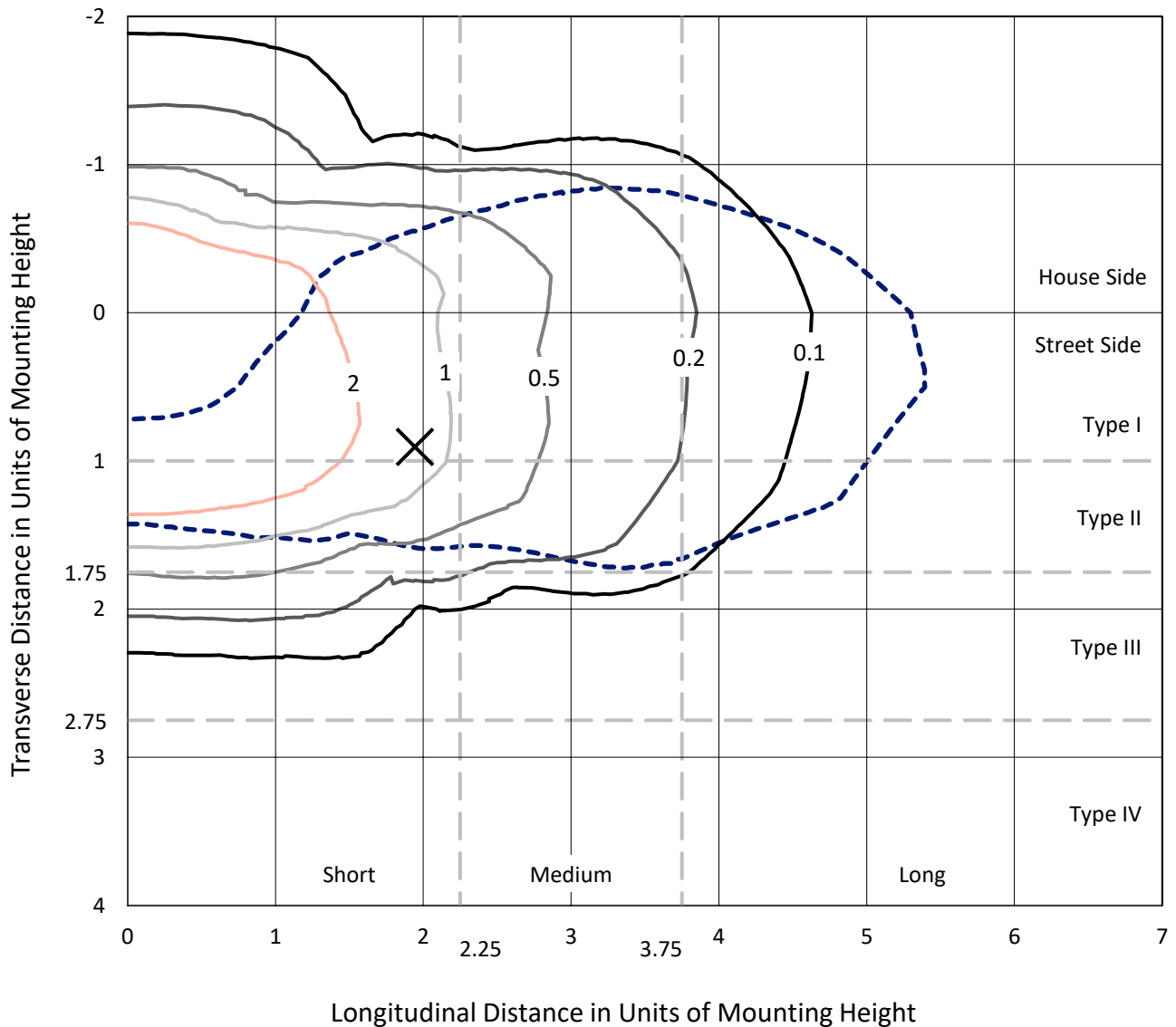
Input Watts (W): 36.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

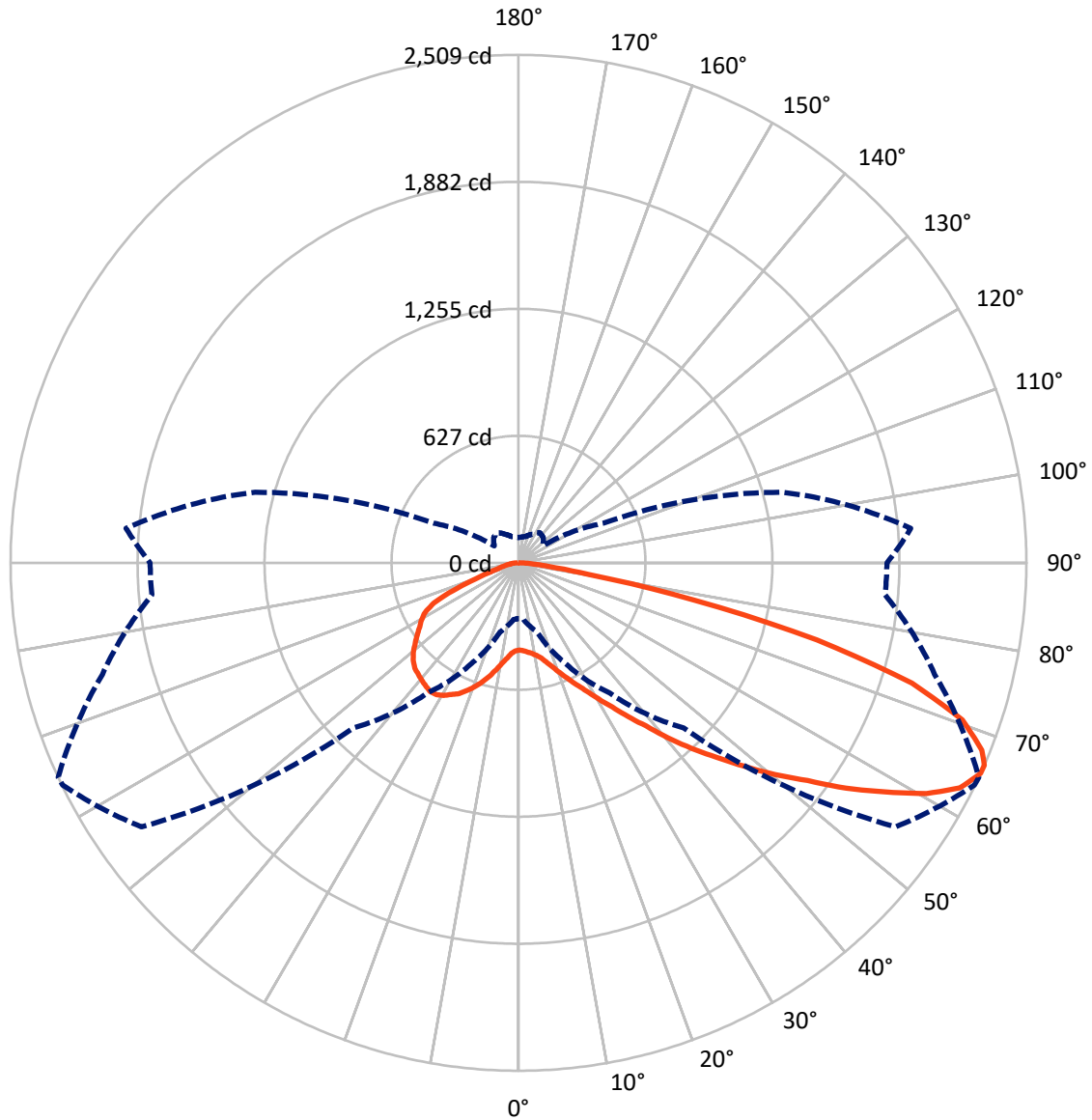
× Max cd
 - - - 1/2 Max cd



Based on 12 foot mounting height. Maximum calculated value = 4.8 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	1313.2	0.0	1313.2
	% Fixture	30.4	0.0	30.4
Street Side	Lumens	3011.8	0.0	3011.8
	% Fixture	69.6	0.0	69.6
Total	Lumens	4325.0	0.0	4325.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	44.0	1.0
10°-20°	153.3	3.5
20°-30°	300.2	6.9
30°-40°	490.5	11.3
40°-50°	778.6	18.0
50°-60°	1001.4	23.2
60°-70°	903.1	20.9
70°-80°	560.1	13.0
80°-90°	93.8	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°	4325.0	100.0
0°-180°	4325.0	100.0

Coefficient of Utilization



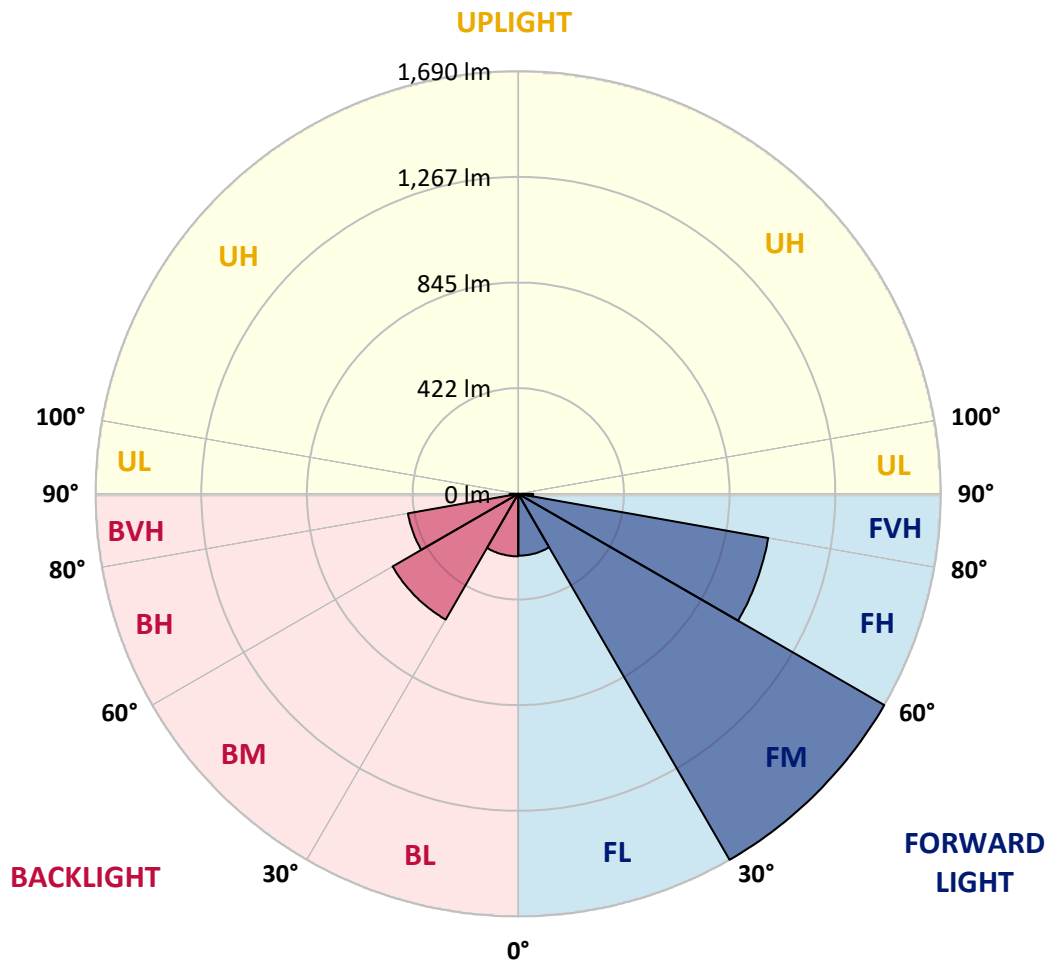
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	247.3	5.7			
FM (30°-60°)	1690.0	39.1			
FH (60°-80°)	1015.1	23.5			G1/1800
FVH (80°-90°)	59.4	1.4			G1/100
BL (0°-30°)	250.1	5.8	B1/500		
BM (30°-60°)	580.6	13.4	B1/1000		
BH (60°-80°)	448.1	10.4	B1/500		G1/500
BVH (80°-90°)	34.5	0.8			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	431.1	431.1	431.1	431.1	431.1	431.1	431.1	431.1	431.1	431.1	431.1
2.5°	432.1	433.2	434.2	432.1	434.2	435.3	433.2	433.2	434.2	432.1	432.1
5°	429.0	430.1	432.1	433.2	437.4	439.5	440.5	440.5	441.6	440.5	441.6
7.5°	420.6	420.6	424.8	426.9	433.2	440.5	444.7	451.0	451.0	452.1	455.2
10°	429.0	429.0	432.1	435.3	440.5	446.8	453.1	460.5	462.6	469.9	474.1
12.5°	441.6	443.7	447.9	452.1	458.4	465.7	471.0	478.3	479.3	486.7	495.1
15°	462.6	464.7	466.8	472.0	480.4	489.8	499.3	504.5	506.6	510.8	517.1
17.5°	494.0	496.1	497.2	500.3	506.6	519.2	532.8	537.0	539.1	539.1	544.4
20°	547.5	546.5	544.4	538.1	538.1	549.6	568.5	575.8	577.9	573.8	570.6
22.5°	609.4	608.4	600.0	592.6	587.4	589.5	608.4	621.0	619.9	611.5	598.9
25°	690.2	692.3	678.6	659.8	644.0	639.8	651.4	664.0	666.1	650.3	629.3
27.5°	786.7	783.5	776.2	745.8	715.4	696.5	702.8	716.4	717.5	700.7	667.1
30°	900.0	894.7	875.8	844.4	797.2	770.9	765.7	777.2	780.4	752.1	703.8
32.5°	1025.8	1020.6	996.5	948.2	896.8	852.8	836.0	851.7	849.6	817.1	750.0
35°	1177.9	1176.9	1132.8	1073.0	1008.0	949.3	926.2	926.2	932.5	884.2	808.7
37.5°	1381.4	1389.8	1324.8	1231.4	1140.2	1061.5	1022.7	1020.6	1021.6	969.2	874.8
40°	1565.0	1561.8	1524.1	1437.0	1303.8	1203.1	1145.4	1132.8	1136.0	1068.8	960.8
42.5°	1670.9	1674.1	1664.6	1626.9	1510.4	1383.5	1284.9	1251.3	1252.4	1168.5	1042.6
45°	1737.0	1740.1	1739.1	1758.0	1711.8	1592.2	1451.7	1374.1	1369.9	1281.8	1139.1
47.5°	1774.7	1776.8	1790.5	1829.3	1867.0	1839.8	1636.3	1510.4	1502.0	1387.7	1235.6
50°	1732.8	1733.8	1788.4	1880.7	1973.0	2055.9	1825.1	1645.7	1643.6	1505.2	1330.0
52.5°	1512.5	1531.4	1652.0	1845.0	2051.7	2209.0	2043.3	1805.2	1787.3	1616.4	1424.4
55°	1234.6	1243.0	1381.4	1626.9	2037.0	2303.4	2207.9	1977.2	1964.6	1740.1	1516.7
57.5°	963.9	972.3	1137.0	1341.5	1812.5	2298.1	2324.4	2162.8	2134.5	1848.2	1609.0
60°	622.0	648.2	839.1	1090.9	1467.4	2138.7	2383.1	2341.2	2314.9	1955.2	1687.7
62.5°	422.7	426.9	546.5	808.7	1098.2	1738.0	2378.9	2451.3	2447.1	2062.1	1766.4
65°	274.8	281.1	353.5	547.5	785.6	1153.8	2274.0	2504.8	2509.0	2128.2	1817.8
66°	232.9	237.1	292.6	460.5	688.1	914.6	2181.7	2500.6	2509.0	2158.6	1833.5
67.5°	202.4	205.6	233.9	339.8	562.2	657.7	1941.5	2445.0	2469.1	2187.0	1853.4
70°	174.1	178.3	204.5	231.8	401.7	383.9	1229.3	2302.3	2326.5	2200.6	1866.0
72.5°	143.7	146.8	173.1	209.8	291.6	258.0	542.3	1970.9	2031.7	2150.3	1846.1
75°	113.3	115.4	139.5	175.2	223.4	201.4	236.0	1445.4	1522.0	1895.4	1768.5
77.5°	88.1	89.2	108.0	136.4	204.5	156.3	145.8	703.8	890.5	1464.3	1557.6
80°	60.8	62.9	79.7	102.8	150.0	123.8	97.5	274.8	349.3	972.3	1181.1
82.5°	39.9	40.9	54.5	77.6	99.6	118.5	64.0	133.2	146.8	447.9	511.9
85°	27.3	27.3	38.8	48.2	68.2	78.7	42.0	70.3	76.6	169.9	61.9
87.5°	13.6	13.6	18.9	25.2	32.5	30.4	25.2	25.2	25.2	55.6	17.8
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°	431.1	431.1	431.1	431.1	431.1	431.1	431.1	431.1	431.1	431.1	431.1
2.5°	433.2	433.2	434.2	435.3	436.3	436.3	437.4	437.4	436.3	437.4	438.4
5°	442.6	443.7	445.8	448.9	454.2	459.4	464.7	467.8	471.0	472.0	469.9
7.5°	457.3	459.4	466.8	475.2	483.5	496.1	503.5	507.7	509.8	511.9	509.8
10°	476.2	480.4	490.9	505.6	520.3	536.0	544.4	550.7	551.7	553.8	551.7
12.5°	498.2	505.6	521.3	542.3	560.1	575.8	582.1	577.9	568.5	564.3	563.3
15°	524.5	531.8	553.8	580.0	601.0	608.4	598.9	585.3	574.8	573.8	572.7
17.5°	547.5	558.0	588.4	615.7	635.6	628.3	603.1	594.7	591.6	595.8	594.7
20°	576.9	585.3	615.7	649.3	659.8	631.4	613.6	608.4	605.2	605.2	603.1
22.5°	601.0	607.3	644.0	680.7	674.4	633.5	621.0	610.5	600.0	598.9	595.8
25°	629.3	631.4	670.2	710.1	676.5	635.6	613.6	595.8	585.3	582.1	583.2
27.5°	655.6	660.8	694.4	730.0	671.3	624.1	588.4	565.4	549.6	548.6	548.6
30°	689.1	689.1	719.5	752.1	659.8	594.7	547.5	514.0	501.4	500.3	498.2
32.5°	726.9	720.6	750.0	767.8	634.6	554.9	491.9	454.2	434.2	430.1	426.9
35°	779.3	765.7	786.7	770.9	609.4	498.2	421.7	378.7	364.0	357.7	357.7
37.5°	840.2	820.2	842.3	761.5	570.6	432.1	348.2	315.7	300.0	290.5	293.7
40°	911.5	886.3	898.9	751.0	528.6	358.7	287.4	267.5	248.6	236.0	236.0
42.5°	995.4	953.5	962.9	740.5	468.9	294.7	248.6	235.0	220.3	207.7	210.8
45°	1076.2	1035.3	1025.8	730.0	405.9	251.7	232.9	223.4	209.8	195.1	195.1
47.5°	1169.5	1117.1	1081.4	711.2	344.0	238.1	237.1	223.4	197.2	176.2	174.1
50°	1257.6	1209.4	1131.8	682.8	309.4	249.6	236.0	203.5	178.3	164.7	163.6
52.5°	1351.0	1300.6	1172.7	648.2	291.6	244.4	217.1	186.7	167.8	154.2	151.0
55°	1443.3	1417.1	1209.4	614.7	263.3	227.6	201.4	176.2	156.3	143.7	141.6
57.5°	1548.2	1537.7	1240.9	581.1	219.2	206.6	189.9	168.9	150.0	140.6	139.5
60°	1639.4	1676.1	1278.6	555.9	186.7	190.9	184.6	167.8	154.2	143.7	143.7
62.5°	1735.9	1809.4	1312.2	523.4	162.6	181.5	185.7	166.8	148.9	139.5	139.5
65°	1819.8	1945.7	1346.8	463.6	145.8	174.1	182.5	155.2	134.3	126.9	124.8
66°	1855.5	1984.5	1357.3	426.9	139.5	168.9	177.3	148.9	128.0	121.7	120.6
67.5°	1897.5	2045.4	1369.9	348.2	130.1	157.3	165.7	139.5	117.5	113.3	111.2
70°	1956.2	2057.9	1362.5	227.6	113.3	135.3	147.9	124.8	104.9	101.7	98.6
72.5°	1962.5	1971.9	1289.1	143.7	98.6	116.4	130.1	112.2	92.3	89.2	87.1
75°	1858.7	1747.5	1090.9	102.8	87.1	102.8	114.3	97.5	76.6	72.4	70.3
77.5°	1587.0	1386.7	784.6	76.6	75.5	88.1	95.5	85.0	64.0	60.8	59.8
80°	1113.9	940.9	393.3	57.7	59.8	73.4	79.7	71.3	53.5	49.3	47.2
82.5°	451.0	399.6	135.3	43.0	45.1	55.6	68.2	58.7	40.9	35.7	31.5
85°	51.4	87.1	58.7	29.4	30.4	37.8	46.2	35.7	24.1	19.9	16.8
87.5°	10.5	18.9	21.0	11.5	10.5	14.7	21.0	12.6	8.4	3.1	4.2
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)