

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: P522624

Luminaire Tested: **GALN-SA1B-730-U-T4W**

Issue Date: 5/13/2021

Test Information

Test Method: LM-79-08
Report Number: P522624
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2011-042-41)
Test Lab: INNOVATION CENTER
Issue Date: 5/13/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA1B-730-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3000K, 800mA LIGHTSQUARE WITH 16 LEDS AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5247 lumens
Efficiency: N/A
Efficacy: 119.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

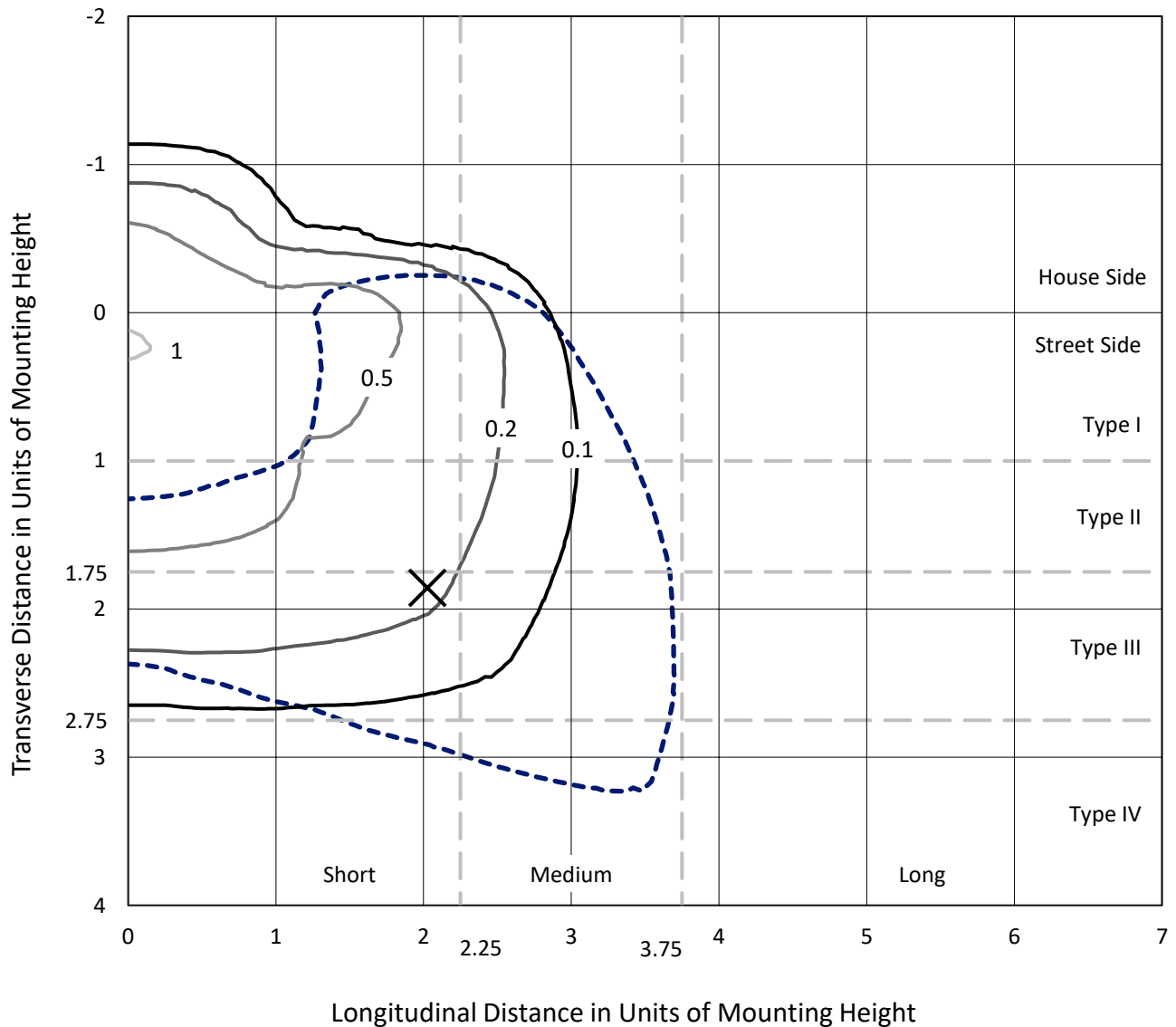
Input Watts (W): 44
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

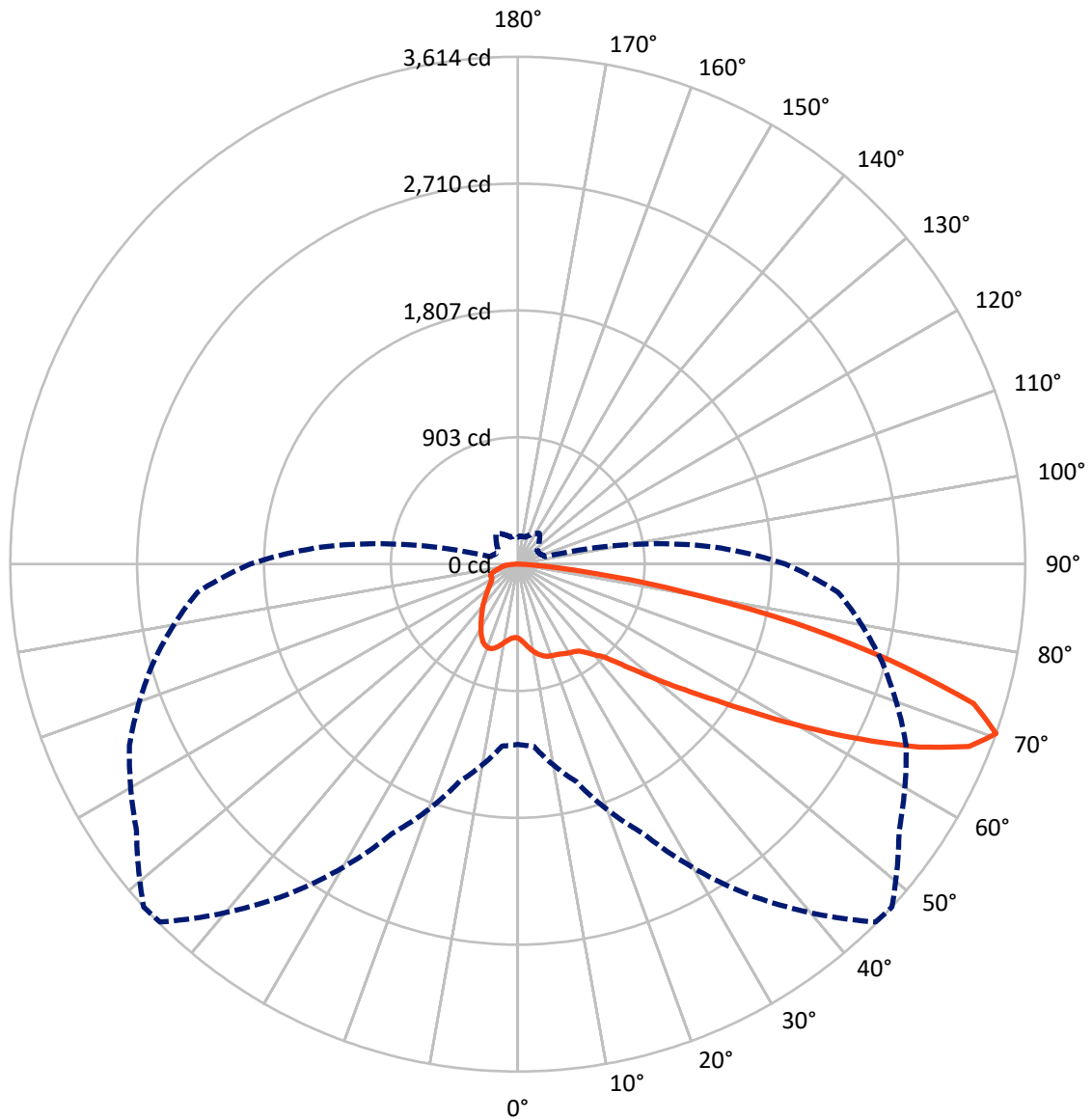
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.1 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 47.5-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1188.0	0.0	1188.0
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	4059.0	0.0	4059.0
	% Fixture	77.4	0.0	77.4
Total	Lumens	5247.0	0.0	5247.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	54.3	1.0
10°-20°	181.5	3.5
20°-30°	301.9	5.8
30°-40°	427.8	8.2
40°-50°	631.6	12.0
50°-60°	1093.9	20.8
60°-70°	1545.2	29.4
70°-80°	888.3	16.9
80°-90°	122.6	2.3
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°	5247.0	100.0
0°-180°	5247.0	100.0

Coefficient of Utilization



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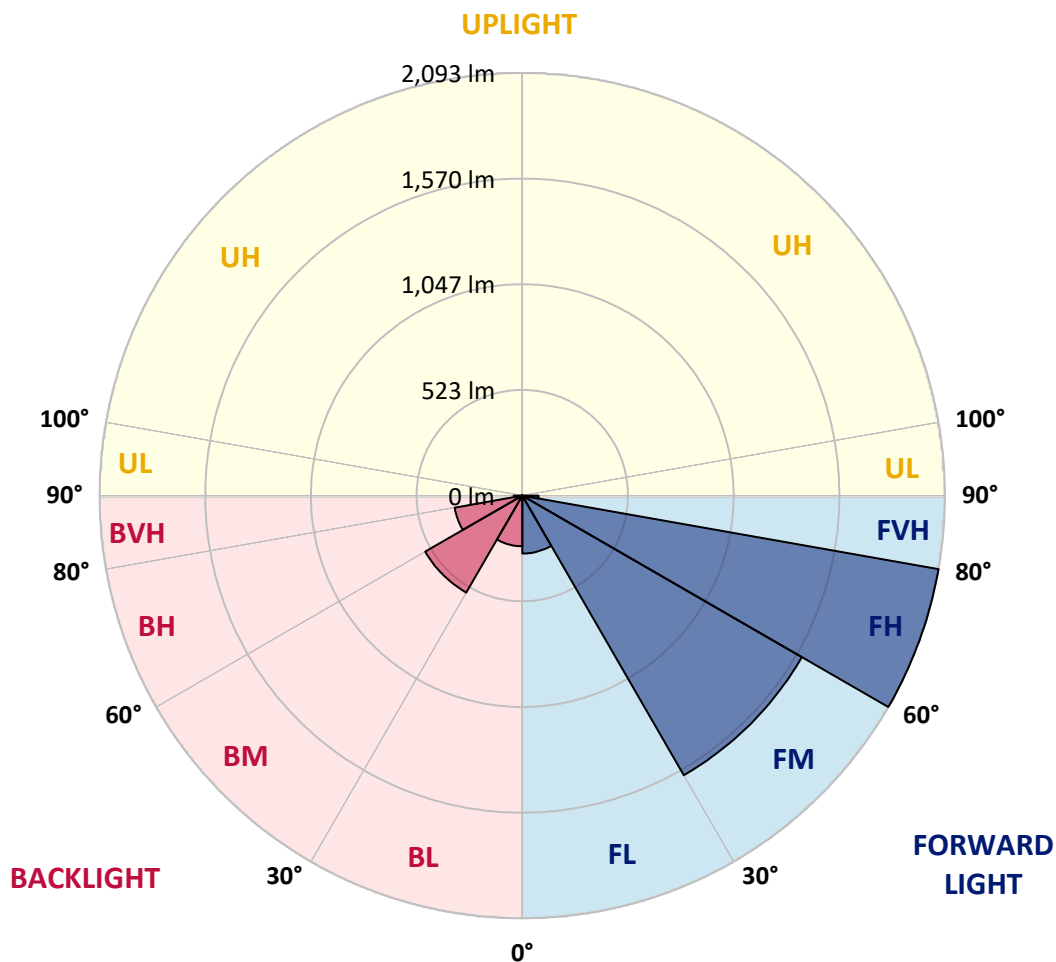
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	286.9	5.5			
FM (30°-60°)	1598.7	30.5			
FH (60°-80°)	2093.3	39.9			G2/5000
FVH (80°-90°)	80.1	1.5			G1/100
BL (0°-30°)	250.7	4.8	B1/500		
BM (30°-60°)	554.7	10.6	B1/1000		
BH (60°-80°)	340.1	6.5	B1/500		G1/500
BVH (80°-90°)	42.5	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-G2

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47.5°	55°	65°	75°	85°
0°	526.7	526.7	526.7	526.7	526.7	526.7	526.7	526.7	526.7	526.7	526.7
2.5°	560.7	558.7	558.5	554.3	552.0	547.8	546.1	542.2	537.4	532.6	528.1
5°	604.8	604.8	602.8	596.9	587.7	578.1	573.9	566.3	552.8	541.9	532.6
7.5°	650.0	650.6	646.6	637.9	624.7	609.3	605.4	594.1	575.0	559.0	545.3
10°	689.0	689.0	683.7	671.9	655.3	638.5	634.6	621.9	600.6	580.6	562.7
12.5°	718.8	718.8	711.8	696.3	678.4	663.2	658.7	646.6	626.7	604.5	581.8
15°	738.2	736.8	728.9	711.5	694.1	680.9	677.8	667.7	649.4	627.0	601.4
17.5°	739.0	738.4	730.9	716.3	701.1	692.1	690.1	683.4	669.1	647.8	620.8
20°	722.7	723.8	718.8	708.4	701.1	697.2	696.3	694.1	684.0	664.0	637.1
22.5°	705.3	707.3	702.5	696.9	696.3	700.3	700.8	701.4	694.9	675.5	650.8
25°	701.1	702.5	697.7	692.7	695.8	706.2	708.4	710.6	705.6	689.3	667.1
27.5°	722.4	721.3	712.0	701.1	703.1	717.1	720.2	722.7	720.2	706.2	687.3
30°	782.8	779.2	760.6	728.6	718.5	728.3	731.4	738.4	738.4	728.1	709.2
32.5°	883.9	876.9	842.9	780.0	744.9	739.0	742.1	753.6	759.5	751.4	730.9
35°	1006.6	999.3	950.7	866.2	793.2	760.3	759.5	772.4	788.1	769.9	743.2
37.5°	1129.8	1122.3	1063.9	969.0	863.7	805.3	800.2	804.7	811.4	778.0	760.3
40°	1253.1	1244.1	1193.0	1083.8	949.9	864.8	851.6	831.4	828.6	804.7	793.5
42.5°	1375.2	1367.1	1341.3	1212.7	1053.2	922.9	902.7	867.9	878.5	864.2	854.4
45°	1498.5	1499.1	1471.5	1357.3	1177.9	1030.2	1002.9	948.5	973.7	968.4	974.0
47.5°	1607.7	1606.3	1596.5	1497.7	1332.6	1168.3	1133.2	1070.0	1113.3	1132.9	1175.9
50°	1713.6	1712.7	1713.3	1656.9	1512.3	1332.6	1293.8	1227.6	1325.0	1393.2	1470.1
52.5°	1865.2	1870.0	1836.0	1821.1	1730.7	1526.6	1483.9	1415.4	1575.2	1682.7	1832.9
55°	2017.4	2013.4	1986.8	2002.2	1959.3	1756.3	1711.6	1657.1	1853.7	1971.3	2197.1
57.5°	2106.9	2108.3	2135.6	2211.1	2241.4	2042.6	2002.2	1960.1	2166.7	2250.1	2521.1
60°	2187.5	2194.0	2272.3	2415.0	2497.2	2394.5	2358.5	2317.5	2454.0	2487.1	2802.4
62.5°	2212.8	2232.7	2369.5	2582.9	2746.6	2791.5	2746.8	2656.4	2727.5	2714.5	2993.1
65°	2086.7	2114.0	2359.1	2645.8	2969.2	3168.3	3139.9	2972.0	2960.5	2882.7	3024.2
67.5°	1754.8	1782.1	2096.8	2513.8	3061.3	3494.5	3466.2	3202.2	3102.0	2898.5	2788.4
70°	1284.0	1301.1	1602.1	2116.5	2876.3	3604.0	3613.9	3314.6	3051.5	2684.8	2289.4
72.5°	739.8	777.7	988.6	1489.0	2349.8	3327.2	3395.4	3081.0	2731.9	2239.7	1600.7
75°	318.1	319.0	457.1	821.3	1591.4	2674.4	2740.4	2553.9	2145.4	1548.8	854.7
77.5°	151.3	154.1	201.0	366.7	876.0	1847.8	2025.8	1804.3	1372.2	744.1	322.9
80°	98.3	100.2	123.0	181.9	429.6	1071.4	1195.5	1040.8	605.4	265.9	139.3
82.5°	59.5	60.1	82.3	111.2	236.4	485.2	571.9	451.8	258.3	159.2	82.0
85°	36.2	36.5	50.0	68.8	143.5	167.6	172.1	170.7	151.6	104.2	43.8
87.5°	17.4	18.0	25.8	32.6	56.4	51.9	49.1	57.0	71.6	56.2	18.8
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°	526.7	526.7	526.7	526.7	526.7	526.7	526.7	526.7	526.7	526.7	526.7
2.5°	526.2	525.3	523.4	522.5	522.0	522.2	522.0	522.0	522.2	522.2	522.2
5°	528.7	527.3	524.2	524.2	525.9	529.8	533.5	536.3	539.4	539.1	539.1
7.5°	539.7	537.1	533.5	534.6	538.8	545.0	551.4	557.6	563.8	564.4	564.1
10°	555.7	553.1	549.2	550.6	557.3	566.6	574.7	583.7	590.5	592.4	591.9
12.5°	573.9	568.9	565.5	569.4	580.1	592.4	600.3	607.0	611.8	614.6	613.5
15°	592.4	587.7	583.7	591.9	604.8	616.3	620.2	621.4	622.2	625.0	624.4
17.5°	610.4	603.9	602.5	613.2	625.6	630.6	628.4	623.6	620.0	622.2	621.9
20°	626.4	621.4	620.8	631.5	636.2	631.5	621.9	613.5	607.0	607.6	607.3
22.5°	641.6	637.6	638.2	642.7	635.1	618.8	603.1	591.6	584.6	586.0	586.8
25°	658.4	654.5	655.9	648.6	623.6	595.2	572.5	562.7	559.9	562.7	564.6
27.5°	680.3	677.8	677.0	648.9	603.1	560.4	534.6	530.9	533.5	539.7	542.7
30°	703.9	703.9	699.4	644.1	575.0	518.6	496.1	496.7	505.4	514.1	517.2
32.5°	726.6	731.4	717.4	631.2	538.8	477.9	460.8	461.3	468.9	479.6	482.4
35°	745.5	759.2	732.8	607.6	496.1	443.6	430.7	423.1	423.4	431.6	433.8
37.5°	771.3	796.8	741.8	572.5	450.6	414.4	399.8	386.6	377.9	374.6	374.6
40°	816.2	853.8	744.1	520.6	407.7	386.6	365.9	350.1	333.3	318.1	315.3
42.5°	892.3	939.8	739.6	460.8	368.9	356.0	335.8	316.4	293.1	271.8	270.1
45°	1027.1	1051.5	727.5	398.7	334.4	326.5	306.9	285.8	261.1	242.0	240.6
47.5°	1243.0	1208.5	711.5	343.7	303.0	300.7	285.5	261.1	236.4	223.2	221.8
50°	1558.3	1455.5	709.2	303.8	277.7	278.8	266.5	244.0	222.4	211.4	209.7
52.5°	1937.9	1754.0	724.1	275.7	255.5	259.7	253.5	232.8	213.7	204.4	202.7
55°	2306.3	2022.4	733.1	253.8	234.7	242.6	243.4	226.0	208.6	199.4	198.2
57.5°	2605.3	2224.6	693.2	233.9	216.8	228.8	235.0	222.1	206.1	199.1	197.9
60°	2813.4	2320.1	579.8	216.2	203.6	217.9	231.9	222.4	212.3	213.1	213.7
62.5°	2879.6	2277.7	434.9	203.0	194.6	214.2	237.0	233.9	223.5	230.0	231.1
65°	2769.9	2102.5	315.3	192.6	186.7	216.8	252.1	242.3	219.6	224.3	224.3
67.5°	2402.3	1811.3	245.4	183.1	177.7	221.5	267.3	241.5	210.3	215.9	210.9
70°	1905.6	1401.1	204.4	172.4	168.2	214.5	268.7	232.8	199.4	200.5	190.9
72.5°	1264.6	921.2	175.8	162.3	153.6	192.9	257.2	221.5	188.7	182.2	172.7
75°	619.7	459.3	153.3	149.7	134.5	167.9	241.5	210.9	177.2	167.1	161.7
77.5°	240.1	195.4	130.8	133.6	117.1	148.0	220.7	195.7	162.0	148.2	144.0
80°	116.5	110.9	107.3	111.5	96.3	126.1	201.6	182.5	148.0	132.8	126.6
82.5°	72.4	68.5	82.3	86.8	74.1	115.1	191.2	171.3	130.3	110.1	105.0
85°	36.8	39.3	55.0	59.2	53.1	91.5	157.5	128.6	94.1	78.1	78.6
87.5°	14.0	18.8	28.9	31.2	28.4	48.3	86.8	75.0	60.4	41.0	37.9
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)