

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: P450848

Luminaire Tested: **GALN-SA1C-830-U-T2R**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P450848  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-6)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA1C-830-U-T2R  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 80 CRI, 3000K, 1050mA LIGHTSQUARE WITH 16 LEDS AND TYPE II ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5761 lumens  
Efficiency: N/A  
Efficacy: 101.1 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G1

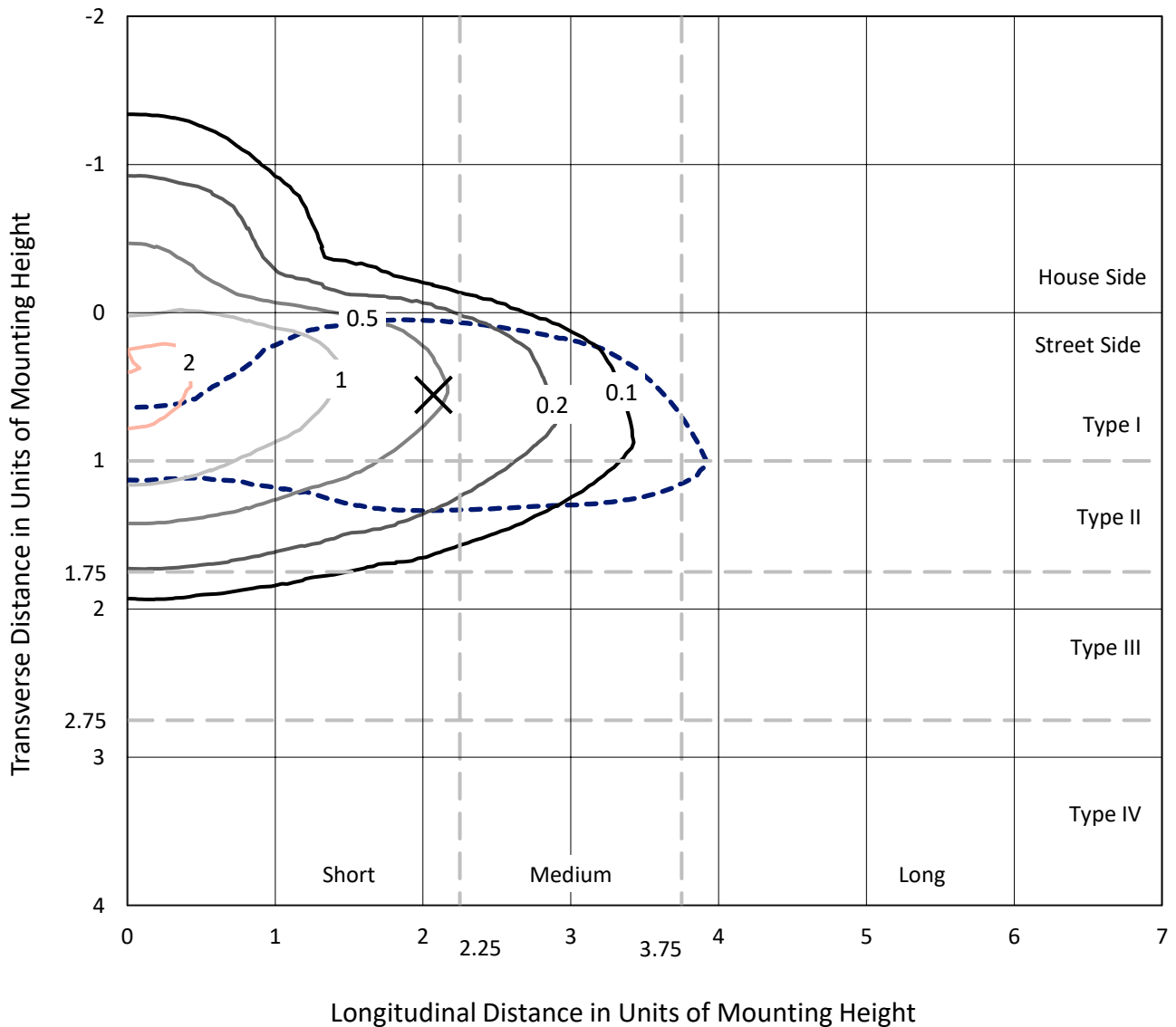
Input Watts (W): 57  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P450848  
 CATALOG NUMBER: GALN-SA1C-830-U-T2R

### Iso-Footcandle Lines of Horizontal Illumination

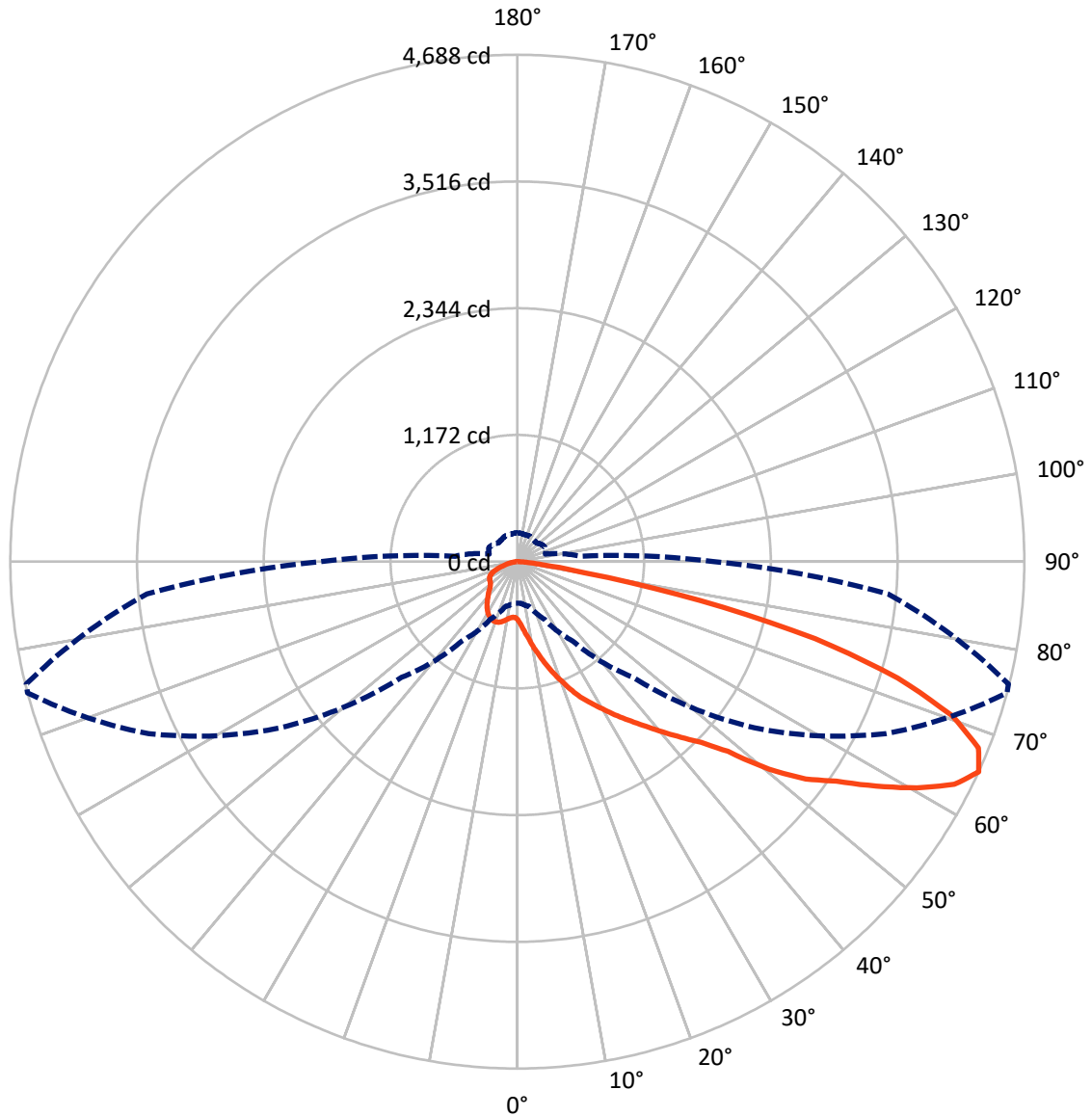
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.2 fc  
 Type II - Short - N/A

REPORT NUMBER: P450848  
CATALOG NUMBER: GALN-SA1C-830-U-T2R

### Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral    - - - Horizontal Cone Through 65-Deg Vertical

REPORT NUMBER: P450848

CATALOG NUMBER: GALN-SA1C-830-U-T2R

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	968.5	0.0	968.5
	% Fixture	16.8	0.0	16.8
<b>Street Side</b>	Lumens	4792.5	0.0	4792.5
	% Fixture	83.2	0.0	83.2
<b>Total</b>	Lumens	5761.0	0.0	5761.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	65.0	1.1
10°-20°	254.7	4.4
20°-30°	492.0	8.5
30°-40°	799.2	13.9
40°-50°	1099.4	19.1
50°-60°	1298.0	22.5
60°-70°	1137.3	19.7
70°-80°	543.0	9.4
80°-90°	72.2	1.3
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°	5761.0	100.0
0°-180°	5761.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P450848

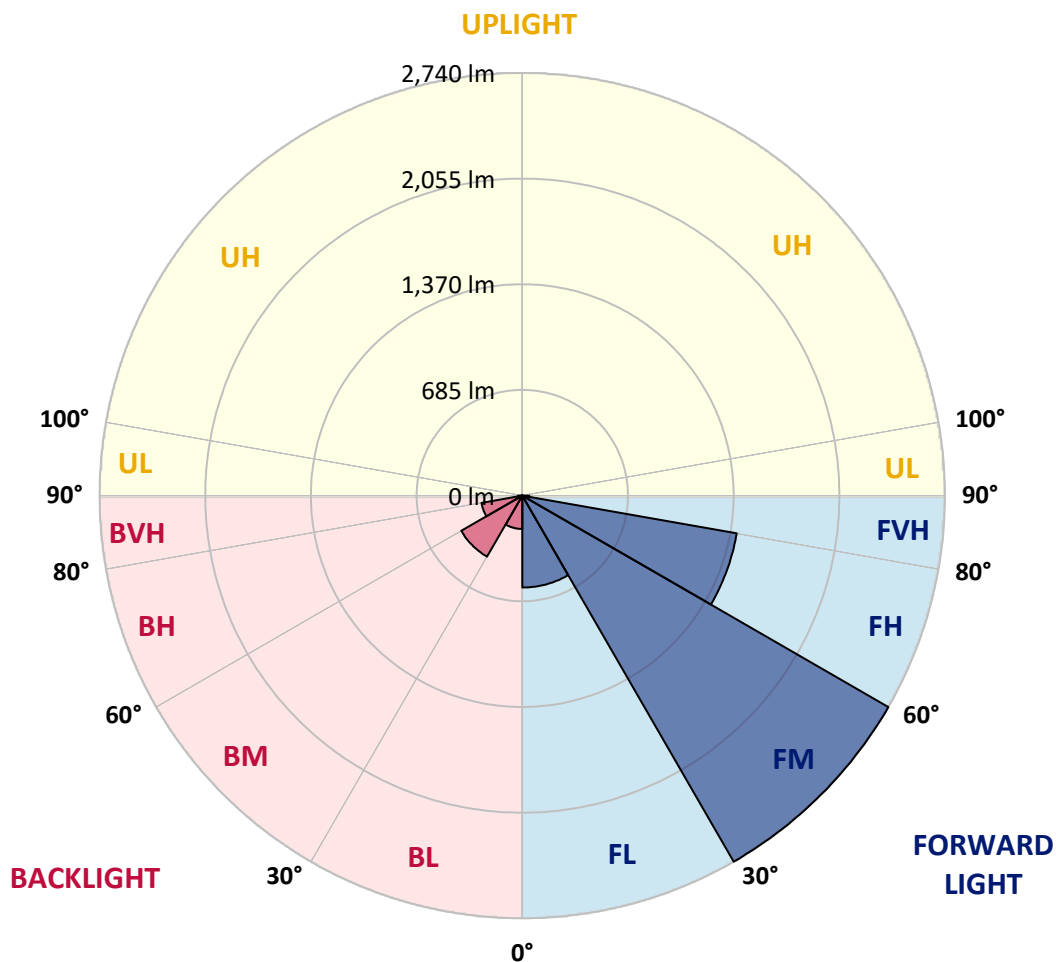
CATALOG NUMBER: GALN-SA1C-830-U-T2R

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	595.6	10.3			
FM (30°-60°)	2740.1	47.6			
FH (60°-80°)	1411.7	24.5			G1/1800
FVH (80°-90°)	45.2	0.8			G1/100
BL (0°-30°)	216.2	3.8	B1/500		
BM (30°-60°)	456.6	7.9	B1/1000		
BH (60°-80°)	268.5	4.7	B1/500		G1/500
BVH (80°-90°)	27.1	0.5			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





REPORT NUMBER: P450848

CATALOG NUMBER: GALN-SA1C-830-U-T2R

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	535.3	535.3	535.3	535.3	535.3	535.3	535.3	535.3	535.3	535.3	535.3
2.5°	711.2	706.5	701.5	687.8	673.1	656.5	632.8	610.0	579.6	578.7	556.2
5°	908.4	905.2	883.1	870.2	836.2	790.9	752.4	692.8	637.4	630.9	587.1
7.5°	1089.6	1077.4	1069.0	1045.9	1012.1	954.0	879.6	799.0	706.5	697.8	625.3
10°	1226.2	1224.9	1220.5	1200.5	1175.2	1117.4	1034.9	919.3	794.0	776.8	671.5
12.5°	1328.3	1329.3	1328.6	1328.3	1310.2	1261.1	1171.8	1049.9	882.4	870.2	724.9
15°	1395.5	1404.9	1408.6	1424.3	1425.8	1393.0	1316.1	1176.2	982.1	964.0	782.4
17.5°	1439.9	1444.6	1462.1	1488.6	1510.2	1504.3	1435.8	1293.0	1084.0	1053.7	842.1
20°	1482.4	1490.5	1503.9	1540.2	1578.3	1595.8	1547.7	1412.7	1184.9	1165.5	908.1
22.5°	1570.8	1582.4	1587.1	1605.5	1638.0	1668.9	1647.1	1527.4	1295.5	1269.3	978.0
25°	1720.5	1732.7	1719.5	1715.2	1725.8	1741.1	1736.4	1635.5	1399.9	1362.4	1044.3
27.5°	1915.5	1917.0	1891.4	1867.0	1840.8	1833.0	1818.6	1731.4	1490.5	1459.3	1110.8
30°	2124.8	2117.3	2074.8	2030.8	1986.4	1942.7	1901.4	1823.9	1591.4	1555.5	1176.2
32.5°	2319.2	2315.1	2267.9	2199.5	2124.5	2083.3	1999.8	1917.3	1699.6	1664.9	1243.3
35°	2464.8	2470.7	2418.9	2344.2	2262.3	2225.8	2120.5	2015.5	1811.4	1773.6	1316.5
37.5°	2568.2	2565.1	2519.2	2454.5	2382.6	2350.7	2261.4	2122.6	1931.7	1895.5	1396.5
40°	2605.1	2603.2	2569.2	2522.0	2476.4	2465.1	2408.9	2238.3	2069.5	2027.0	1492.7
42.5°	2581.7	2585.7	2563.2	2550.4	2542.0	2550.1	2555.4	2389.8	2219.8	2180.8	1597.1
45°	2509.8	2507.6	2504.5	2525.4	2572.9	2626.4	2700.4	2532.9	2383.2	2352.0	1737.0
47.5°	2381.4	2397.0	2404.8	2462.6	2566.4	2692.9	2867.3	2724.8	2620.4	2593.2	1950.5
50°	2201.7	2214.2	2260.4	2363.2	2517.9	2717.9	3030.4	3038.5	3016.0	2965.1	2182.3
52.5°	1921.1	1940.5	2035.8	2224.2	2418.6	2707.6	3129.1	3307.5	3337.2	3299.1	2410.7
55°	1607.1	1634.2	1734.9	1982.0	2281.7	2651.4	3197.2	3463.5	3581.9	3546.6	2630.7
57.5°	1299.6	1328.3	1431.8	1671.1	2043.0	2527.0	3241.9	3637.2	3915.0	3869.1	2904.5
60°	974.0	1004.0	1092.7	1339.3	1703.0	2283.9	3211.6	3787.8	4247.8	4228.1	3178.5
62.5°	628.4	661.5	738.7	942.7	1309.0	1951.7	3049.4	3870.9	4535.9	4512.1	3378.5
65°	382.8	386.5	429.0	585.3	895.9	1511.1	2678.5	3760.6	4687.7	4680.6	3439.4
67.5°	247.5	253.4	272.8	350.6	537.1	1049.6	2141.7	3396.6	4599.0	4596.5	3313.5
70°	209.0	210.9	219.7	236.5	312.2	636.5	1503.9	2816.3	4261.8	4261.8	3010.7
72.5°	186.9	189.4	192.5	197.8	222.8	360.6	897.4	2192.3	3679.7	3704.1	2562.6
75°	169.7	169.0	170.9	171.9	190.0	235.6	464.0	1621.4	2846.6	2797.9	1855.8
77.5°	145.3	146.2	145.3	149.4	167.8	179.4	235.6	1088.0	1725.2	1662.1	931.5
80°	119.4	120.9	122.5	125.0	143.4	136.2	141.6	495.9	638.1	624.6	287.8
82.5°	89.7	91.9	94.4	100.3	112.8	90.0	89.4	211.9	230.3	210.9	105.9
85°	36.2	42.8	64.7	70.6	70.9	49.4	55.0	88.4	94.1	91.9	41.6
87.5°	8.4	10.0	20.9	31.6	29.1	18.4	20.3	28.7	32.8	30.3	14.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P450848  
 CATALOG NUMBER: GALN-SA1C-830-U-T2R

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	535.3	535.3	535.3	535.3	535.3	535.3	535.3	535.3	535.3	535.3	535.3
2.5°	545.9	535.0	516.2	501.8	491.5	482.5	476.8	473.4	472.1	471.8	472.1
5°	564.3	545.0	515.3	496.5	486.2	480.3	476.8	476.5	476.8	477.1	476.2
7.5°	589.6	561.8	523.1	505.6	497.8	493.4	491.8	491.2	491.5	491.2	491.2
10°	623.4	585.3	538.4	520.3	513.7	508.7	506.2	504.6	503.4	502.1	501.5
12.5°	660.6	611.2	555.0	537.5	528.1	520.3	514.6	510.6	507.8	505.0	504.3
15°	702.1	638.7	573.4	549.0	535.6	524.0	514.3	507.8	502.8	498.7	498.4
17.5°	741.8	664.6	585.9	554.3	534.6	518.4	505.6	496.5	490.3	485.0	484.3
20°	784.3	689.3	591.5	550.9	525.3	505.6	488.7	477.8	470.6	464.7	463.7
22.5°	827.1	710.3	590.9	540.0	509.0	485.9	468.1	456.5	448.1	442.2	440.0
25°	868.1	727.1	583.1	522.5	486.5	462.5	444.3	433.7	426.2	419.0	419.0
27.5°	904.9	737.1	568.4	501.2	463.4	438.1	423.7	414.0	407.2	402.5	399.7
30°	941.2	741.8	548.4	474.3	439.0	417.5	405.9	400.3	394.0	388.7	388.1
32.5°	973.7	740.9	523.4	448.1	415.9	400.6	395.9	391.5	385.0	377.5	375.6
35°	1005.2	734.6	493.7	419.3	396.5	390.6	391.8	385.6	373.7	364.3	362.8
37.5°	1039.6	723.4	461.2	395.9	380.3	385.9	389.0	375.3	355.9	341.2	337.8
40°	1079.3	710.6	427.5	372.5	367.5	381.5	381.5	356.2	329.7	320.6	318.1
42.5°	1125.8	699.9	399.3	352.8	356.8	370.9	369.3	330.9	320.0	315.3	314.0
45°	1199.6	696.2	370.3	335.6	348.1	358.4	345.6	322.2	315.9	312.2	310.9
47.5°	1316.1	700.6	344.7	322.8	338.1	345.9	319.0	316.2	311.9	306.5	305.9
50°	1424.3	696.5	326.5	315.6	329.3	330.9	308.1	309.0	306.5	300.6	299.4
52.5°	1512.7	683.7	315.0	311.9	321.8	304.7	297.8	301.2	300.3	292.8	291.5
55°	1609.9	675.9	309.4	311.9	316.8	281.9	288.1	293.1	291.9	286.5	286.2
57.5°	1727.7	677.4	305.3	312.8	311.9	270.3	278.4	284.4	284.0	282.5	282.5
60°	1848.3	678.1	299.0	312.5	305.9	261.2	268.4	276.9	277.5	278.4	278.4
62.5°	1888.3	650.9	286.9	306.9	292.8	252.5	259.0	270.6	270.0	272.5	272.8
65°	1813.6	575.6	268.7	294.0	275.9	246.2	251.9	262.5	259.0	265.6	266.9
67.5°	1650.8	476.2	240.6	270.9	257.2	239.7	247.2	251.2	245.0	257.8	258.1
70°	1426.8	371.8	205.0	238.1	235.9	232.8	243.4	237.2	228.4	244.0	240.9
72.5°	1193.0	284.0	163.7	194.7	207.5	222.5	236.9	219.0	206.9	211.5	205.9
75°	896.2	210.0	131.6	152.5	172.8	207.8	230.9	197.2	178.4	174.0	172.8
77.5°	456.8	137.2	98.4	114.1	129.7	187.8	222.8	171.5	147.8	140.9	137.8
80°	163.1	85.3	69.4	78.7	87.5	161.5	194.7	141.9	114.7	113.4	114.7
82.5°	75.6	55.0	46.6	51.6	51.9	107.8	148.4	105.9	87.2	132.5	111.9
85°	32.5	27.5	26.2	25.6	23.7	48.1	83.4	56.9	88.7	39.7	36.6
87.5°	9.7	10.9	9.7	7.2	5.3	5.3	8.4	3.1	2.2	1.6	1.6
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)