

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: P527466

Luminaire Tested: **GALN-SA2C-727-U-T3R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P527466
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-12)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA2C-727-U-T3R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10322 lumens
Efficiency: N/A
Efficacy: 95.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

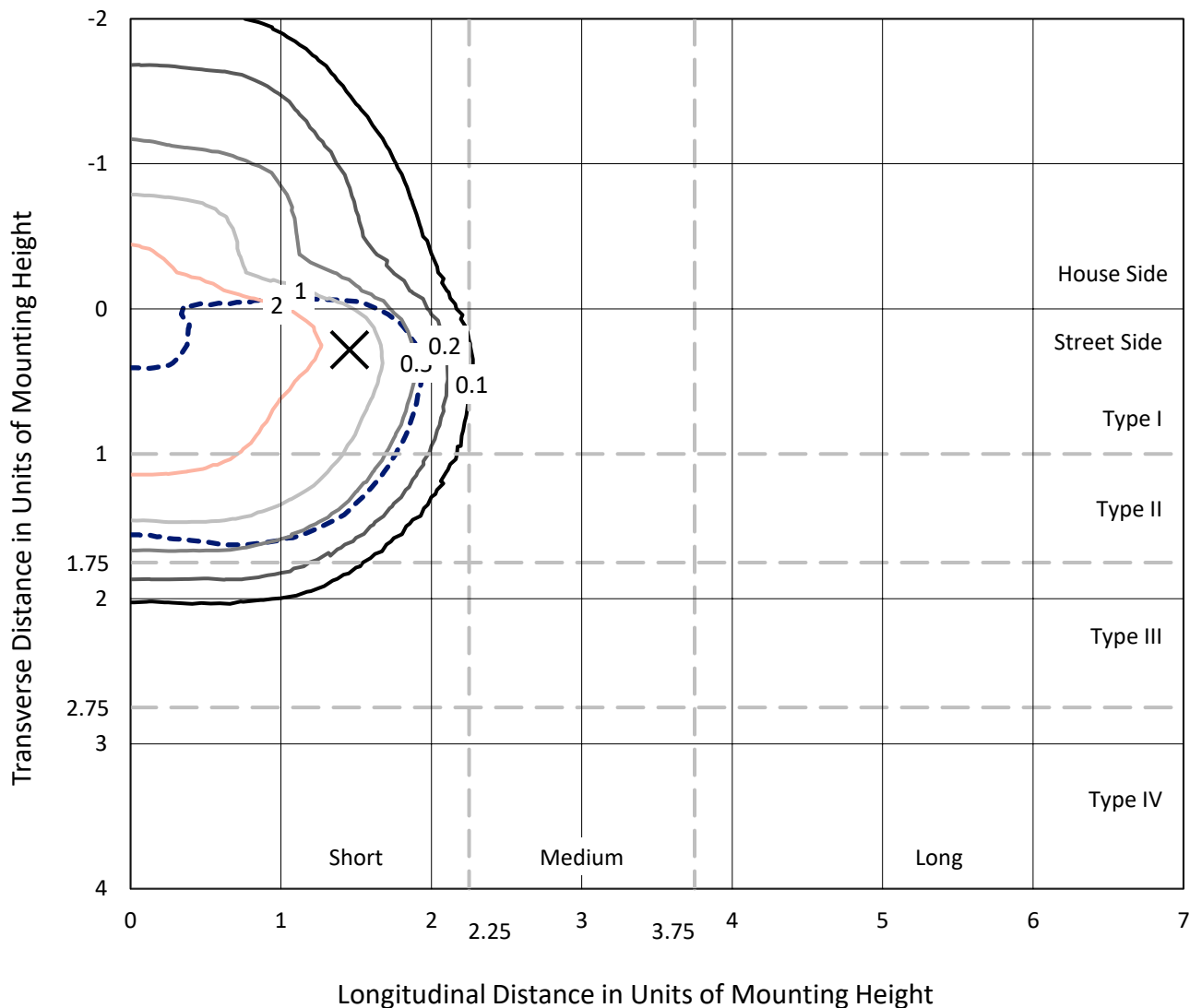
Input Watts (W): 108
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

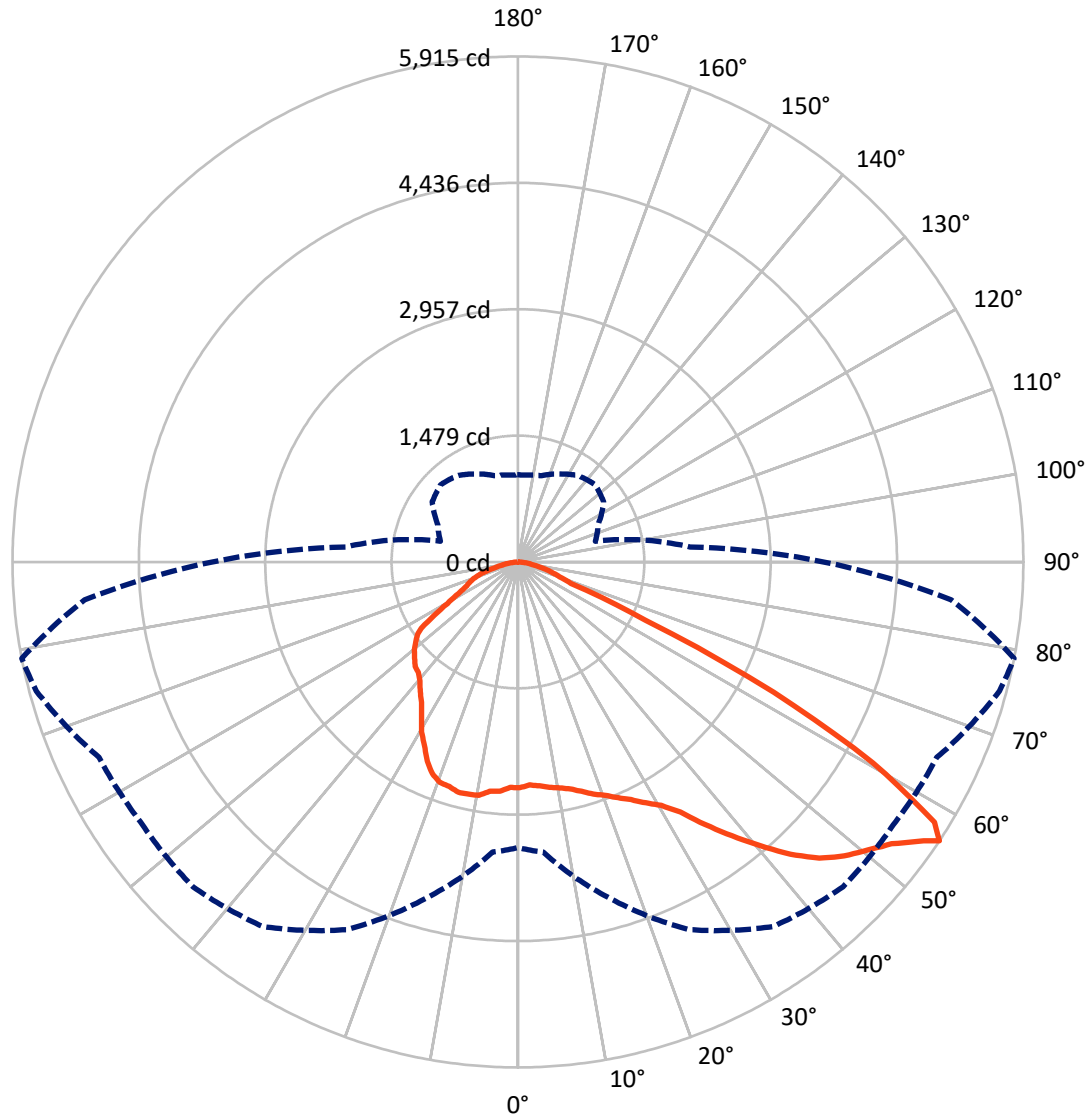
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3048.3	0.0	3048.3
	% Fixture	29.5	0.0	29.5
Street Side	Lumens	7273.7	0.0	7273.7
	% Fixture	70.5	0.0	70.5
Total	Lumens	10322.0	0.0	10322.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	240.1	2.3
10°-20°	657.1	6.4
20°-30°	1124.2	10.9
30°-40°	1723.0	16.7
40°-50°	2328.6	22.6
50°-60°	2674.5	25.9
60°-70°	1219.1	11.8
70°-80°	300.6	2.9
80°-90°	54.6	0.5
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°	10322.0	100.0
0°-180°	10322.0	100.0

Coefficient of Utilization

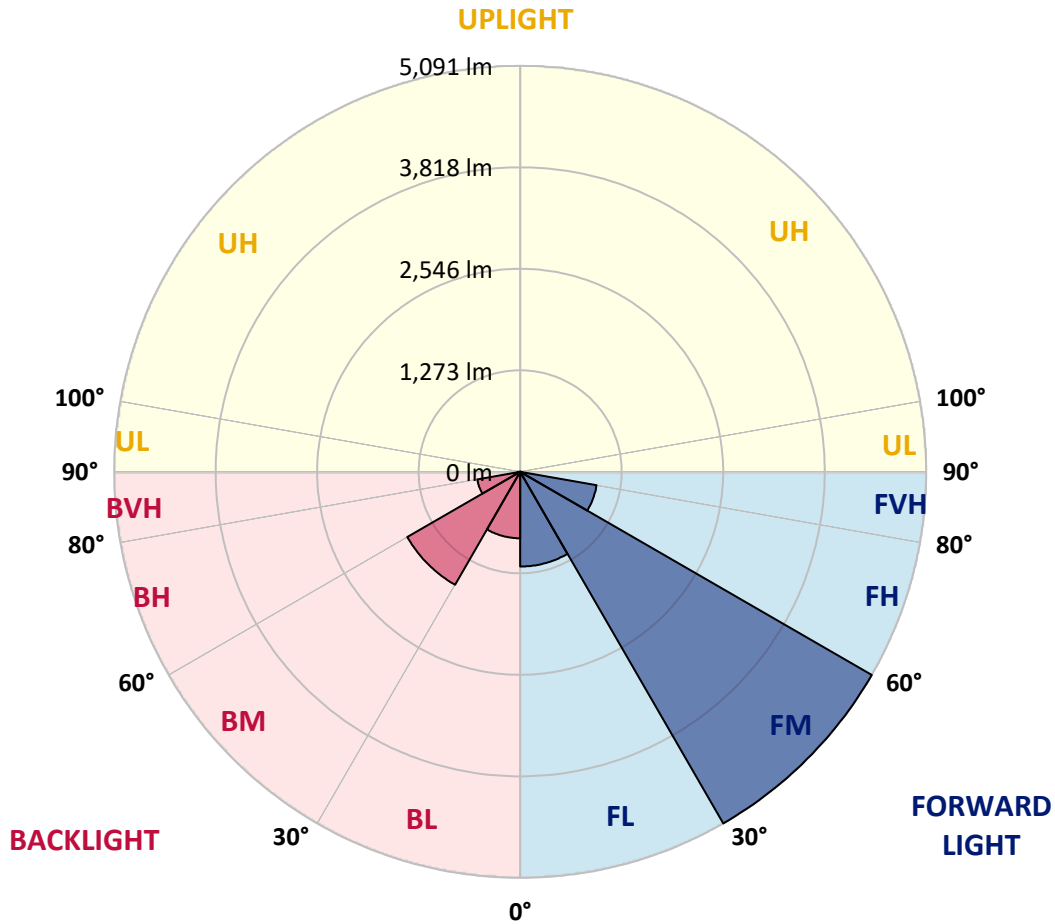


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1187.6	11.5			
FM (30°-60°)	5091.1	49.3			
FH (60°-80°)	973.1	9.4			G1/1800
FVH (80°-90°)	21.8	0.2			G1/100
BL (0°-30°)	833.8	8.1	B2/1000		
BM (30°-60°)	1635.1	15.8	B2/2500		
BH (60°-80°)	546.6	5.3	B2/1000		G2/1000
BVH (80°-90°)	32.8	0.3			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°	65°	75°	79°	85°
0°	2641.0	2641.0	2641.0	2641.0	2641.0	2641.0	2641.0	2641.0	2641.0	2641.0	2641.0
2.5°	2512.4	2506.0	2521.4	2533.0	2547.1	2565.1	2574.1	2579.3	2624.3	2612.7	2647.4
5°	2458.4	2441.7	2453.3	2462.3	2486.7	2508.6	2533.0	2571.6	2612.7	2630.7	2673.1
7.5°	2410.8	2401.8	2399.3	2405.7	2439.1	2467.4	2509.8	2566.4	2633.3	2662.8	2687.3
10°	2332.4	2319.5	2338.8	2381.3	2390.3	2449.4	2498.3	2579.3	2637.1	2688.6	2760.6
12.5°	2297.7	2284.8	2288.7	2313.1	2376.1	2432.7	2490.6	2581.8	2704.0	2724.6	2821.0
15°	2353.0	2340.1	2344.0	2337.5	2398.0	2427.6	2518.8	2633.3	2750.3	2785.0	2887.9
17.5°	2479.0	2480.3	2463.6	2449.4	2435.3	2498.3	2561.3	2664.1	2768.3	2855.7	2932.9
20°	2719.4	2677.0	2643.6	2563.8	2542.0	2569.0	2648.7	2747.7	2841.6	2913.6	3001.0
22.5°	2904.6	2908.4	2860.9	2729.7	2682.1	2693.7	2761.9	2842.9	2945.7	2997.2	3097.4
25°	3173.3	3146.3	3094.9	2990.7	2884.0	2893.0	2943.1	3016.4	3044.7	3080.7	3190.0
27.5°	3418.9	3426.6	3325.0	3227.3	3094.9	3069.2	3159.2	3172.0	3124.4	3192.6	3229.9
30°	3668.3	3661.9	3595.0	3480.6	3350.7	3355.9	3395.7	3332.7	3267.2	3304.5	3330.2
32.5°	3926.8	3853.5	3850.9	3748.0	3649.0	3601.5	3552.6	3583.5	3481.9	3489.6	3465.2
35°	4133.8	4144.1	4084.9	4011.6	3962.8	3879.2	3745.5	3800.8	3781.5	3772.5	3667.0
37.5°	4284.2	4244.4	4273.9	4249.5	4203.2	4099.1	3960.2	4012.9	4021.9	4065.6	3943.5
40°	4407.7	4390.9	4469.4	4482.2	4450.1	4225.1	3975.6	4132.5	4267.5	4362.6	4217.4
42.5°	4466.8	4502.8	4585.1	4684.1	4612.1	4371.7	4055.3	4223.8	4524.7	4675.1	4477.1
45°	4546.5	4500.2	4622.4	4803.7	4805.0	4495.1	4132.5	4347.2	4725.2	4943.8	4654.5
47.5°	4465.5	4488.7	4614.7	4844.8	4904.0	4624.9	4340.8	4522.1	4946.4	5140.5	4819.1
50°	4284.2	4330.5	4560.7	4799.8	4978.5	4762.5	4579.9	4711.1	5150.8	5298.7	4846.1
52.5°	4095.2	4120.9	4480.9	4834.5	5012.0	4940.0	4900.1	4972.1	5400.3	5477.4	4879.5
55°	3580.9	3703.0	4217.4	4819.1	5175.3	5260.1	5229.3	5334.7	5683.1	5760.3	5062.1
56°	3343.0	3407.3	4059.2	4747.1	5207.4	5377.1	5361.7	5409.3	5833.6	5914.6	5090.4
57.5°	2903.3	2908.4	3461.3	4428.2	5086.5	5411.8	5396.4	5433.7	5804.0	5748.7	4842.2
60°	1816.8	1896.5	2355.5	3406.0	4325.4	5021.0	5108.4	4808.8	4893.7	4776.7	3767.3
62.5°	941.2	929.6	1234.3	1991.7	2871.1	3595.0	3676.0	3661.9	3530.8	3359.7	2461.0
65°	469.3	471.9	645.5	986.2	1470.9	1882.4	2108.7	2133.1	1784.7	1641.9	1167.5
67.5°	340.7	353.6	464.2	603.0	693.0	775.3	950.2	932.2	705.9	671.2	622.3
70°	264.9	276.4	376.7	460.3	417.9	417.9	455.2	470.6	502.7	516.9	533.6
72.5°	192.9	201.9	288.0	317.6	273.9	294.4	340.7	376.7	410.2	415.3	434.6
75°	132.4	140.1	189.0	174.9	164.6	203.2	249.4	282.9	307.3	320.2	331.7
77.5°	86.1	88.7	108.0	91.3	105.4	131.1	162.0	190.3	214.7	225.0	227.6
80°	38.6	42.4	46.3	57.9	73.3	93.9	115.7	138.9	154.3	158.2	165.9
82.5°	21.9	21.9	28.3	41.1	54.0	68.1	83.6	100.3	118.3	122.1	120.9
85°	11.6	11.6	16.7	24.4	33.4	39.9	38.6	39.9	42.4	48.9	47.6
87.5°	3.9	3.9	5.1	5.1	6.4	7.7	6.4	9.0	11.6	11.6	11.6
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°	2641.0	2641.0	2641.0	2641.0	2641.0	2641.0	2641.0	2641.0	2641.0	2641.0	2641.0
2.5°	2637.1	2648.7	2633.3	2666.7	2666.7	2660.3	2628.1	2638.4	2646.1	2646.1	2652.6
5°	2687.3	2683.4	2693.7	2653.8	2629.4	2620.4	2567.7	2542.0	2520.1	2518.8	2499.6
7.5°	2715.6	2705.3	2701.4	2671.8	2563.8	2498.3	2385.1	2319.5	2305.4	2255.3	2274.5
10°	2760.6	2779.9	2760.6	2599.8	2449.4	2299.0	2188.4	2086.8	2047.0	2014.8	1995.5
12.5°	2853.1	2844.1	2732.3	2515.0	2304.1	2125.4	1960.8	1854.1	1814.2	1785.9	1783.4
15°	2931.6	2886.6	2715.6	2381.3	2077.8	1887.5	1752.5	1676.7	1658.7	1661.2	1672.8
17.5°	2958.6	2927.7	2628.1	2242.4	1909.4	1685.7	1622.7	1611.1	1627.8	1647.1	1652.2
20°	3001.0	2952.1	2592.1	2053.4	1701.1	1559.7	1555.8	1596.9	1627.8	1656.1	1659.9
22.5°	3089.7	2966.3	2475.1	1874.7	1558.4	1522.4	1559.7	1594.4	1641.9	1665.1	1644.5
25°	3115.4	2935.4	2310.5	1659.9	1468.4	1499.2	1539.1	1586.7	1620.1	1632.9	1641.9
27.5°	3137.3	2887.9	2088.1	1517.2	1440.1	1497.9	1539.1	1578.9	1596.9	1608.5	1618.8
30°	3199.0	2873.7	1895.2	1422.1	1422.1	1472.2	1524.9	1535.2	1559.7	1573.8	1591.8
32.5°	3229.9	2776.0	1697.2	1361.6	1404.1	1485.1	1488.9	1508.2	1509.5	1521.1	1501.8
35°	3310.9	2706.6	1513.4	1317.9	1411.8	1472.2	1491.5	1479.9	1416.9	1386.1	1392.5
37.5°	3370.0	2671.8	1380.9	1312.8	1413.1	1486.4	1496.6	1409.2	1343.6	1292.2	1305.1
40°	3529.5	2585.7	1280.6	1303.8	1424.6	1501.8	1473.5	1378.4	1260.1	1207.3	1198.3
42.5°	3651.6	2524.0	1217.6	1293.5	1433.6	1523.6	1461.9	1316.6	1195.8	1146.9	1159.8
45°	3793.0	2509.8	1184.2	1296.1	1449.1	1535.2	1447.8	1269.1	1140.5	1121.2	1117.3
47.5°	3843.2	2408.3	1148.2	1274.2	1445.2	1531.4	1400.2	1233.1	1119.9	1122.5	1132.8
50°	3759.6	2304.1	1121.2	1229.2	1419.5	1496.6	1325.6	1185.5	1108.3	1140.5	1158.5
52.5°	3652.9	2197.4	1065.9	1168.8	1366.8	1442.6	1290.9	1182.9	1096.8	1086.5	1090.3
55°	3685.0	2110.0	988.8	1086.5	1281.9	1342.4	1252.3	1158.5	1068.5	1029.9	1042.8
56°	3580.9	2020.0	938.6	1035.1	1224.1	1278.1	1233.1	1136.6	1045.3	1019.6	1019.6
57.5°	3286.5	1717.8	873.0	952.8	1101.9	1166.2	1195.8	1123.8	1019.6	974.6	975.9
60°	2423.7	1221.5	783.0	839.6	912.9	964.3	1101.9	1087.8	955.3	924.5	912.9
62.5°	1494.1	892.3	718.8	740.6	777.9	820.3	961.8	984.9	887.2	853.8	846.0
65°	837.0	682.7	669.9	678.9	696.9	718.8	798.5	849.9	783.0	731.6	729.0
67.5°	612.0	610.7	621.0	628.7	636.5	636.5	655.7	676.3	667.3	626.2	622.3
70°	543.9	547.7	555.5	556.7	559.3	550.3	534.9	528.5	538.7	513.0	507.9
72.5°	448.7	461.6	470.6	471.9	457.7	446.2	425.6	403.7	396.0	390.9	389.6
75°	344.6	353.6	357.4	356.2	351.0	334.3	309.9	288.0	273.9	258.4	266.2
77.5°	232.7	245.6	252.0	252.0	244.3	218.6	207.0	190.3	176.2	159.4	162.0
80°	163.3	172.3	182.6	181.3	168.4	155.6	138.9	123.4	111.9	99.0	97.7
82.5°	122.1	127.3	132.4	129.9	120.9	108.0	96.4	82.3	69.4	60.4	60.4
85°	43.7	47.6	57.9	60.4	65.6	65.6	55.3	46.3	37.3	30.9	30.9
87.5°	12.9	12.9	14.1	14.1	12.9	14.1	11.6	12.9	14.1	9.0	9.0
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)