

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: P528309

Luminaire Tested: **GALN-SA3B-827-U-SL2-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P528309
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-17)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA3B-827-U-SL2-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7288 lumens
Efficiency: N/A
Efficacy: 60.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

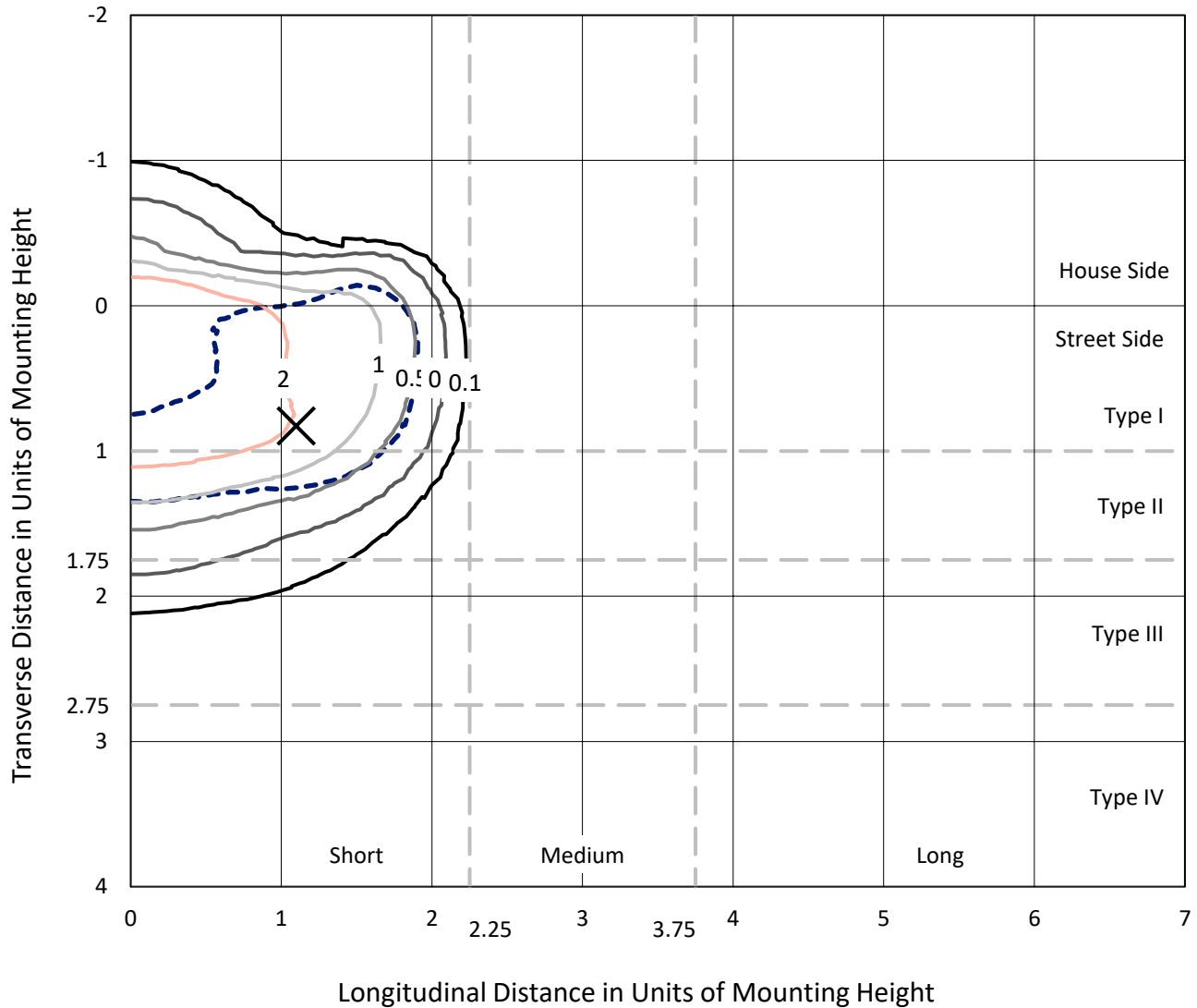
Input Watts (W): 121
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

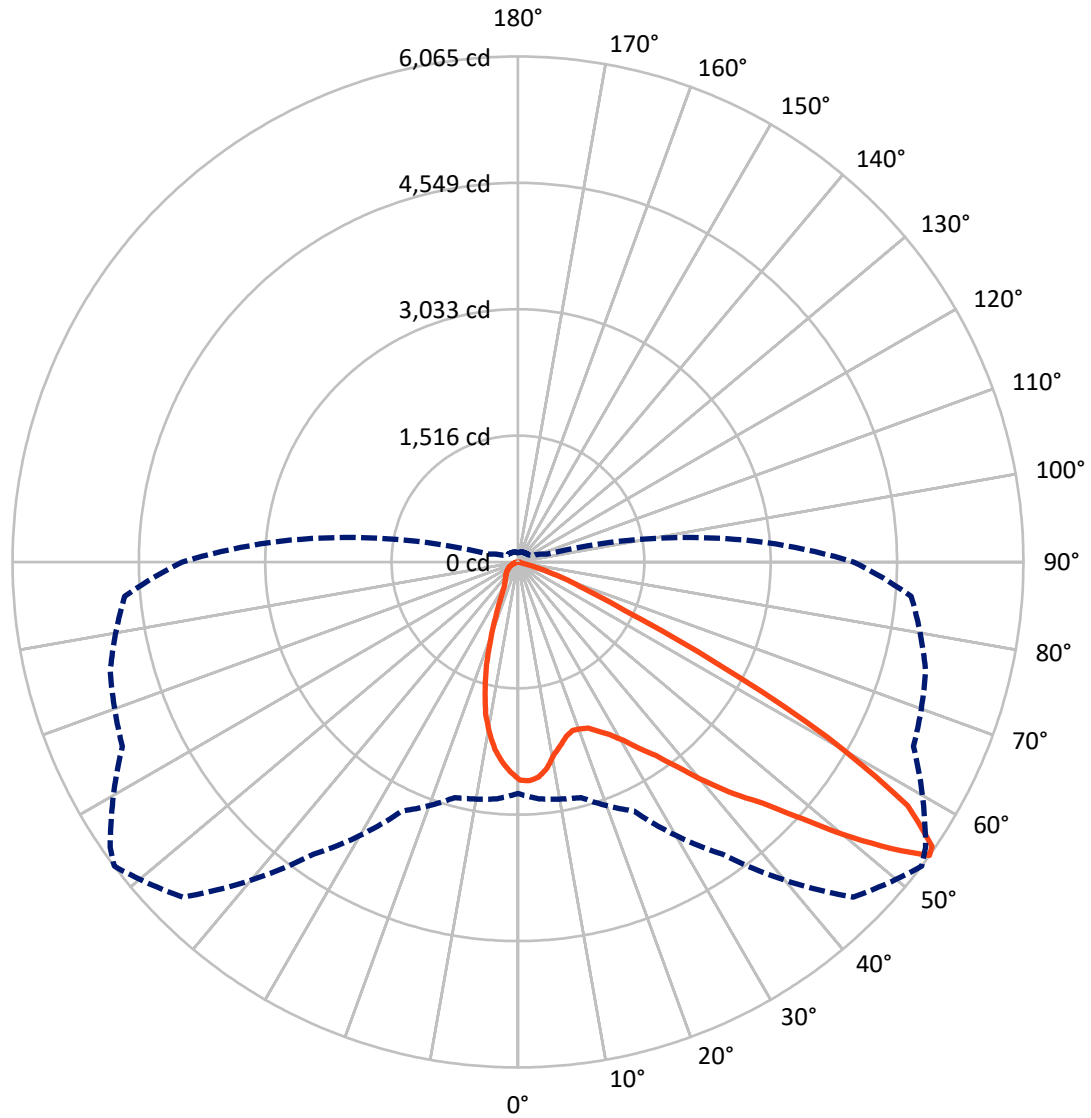
✕ Max cd
 - - - 1/2 Max cd



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 53-Deg Lateral - - - Horizontal Cone Through 54-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1205.8	0.0	1205.8
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	6082.2	0.0	6082.2
	% Fixture	83.5	0.0	83.5
Total	Lumens	7288.0	0.0	7288.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	224.6	3.1
10°-20°	514.9	7.1
20°-30°	731.8	10.0
30°-40°	1129.4	15.5
40°-50°	1770.8	24.3
50°-60°	2057.0	28.2
60°-70°	777.3	10.7
70°-80°	73.9	1.0
80°-90°	8.3	0.1
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°	7288.0	100.0
0°-180°	7288.0	100.0

Coefficient of Utilization



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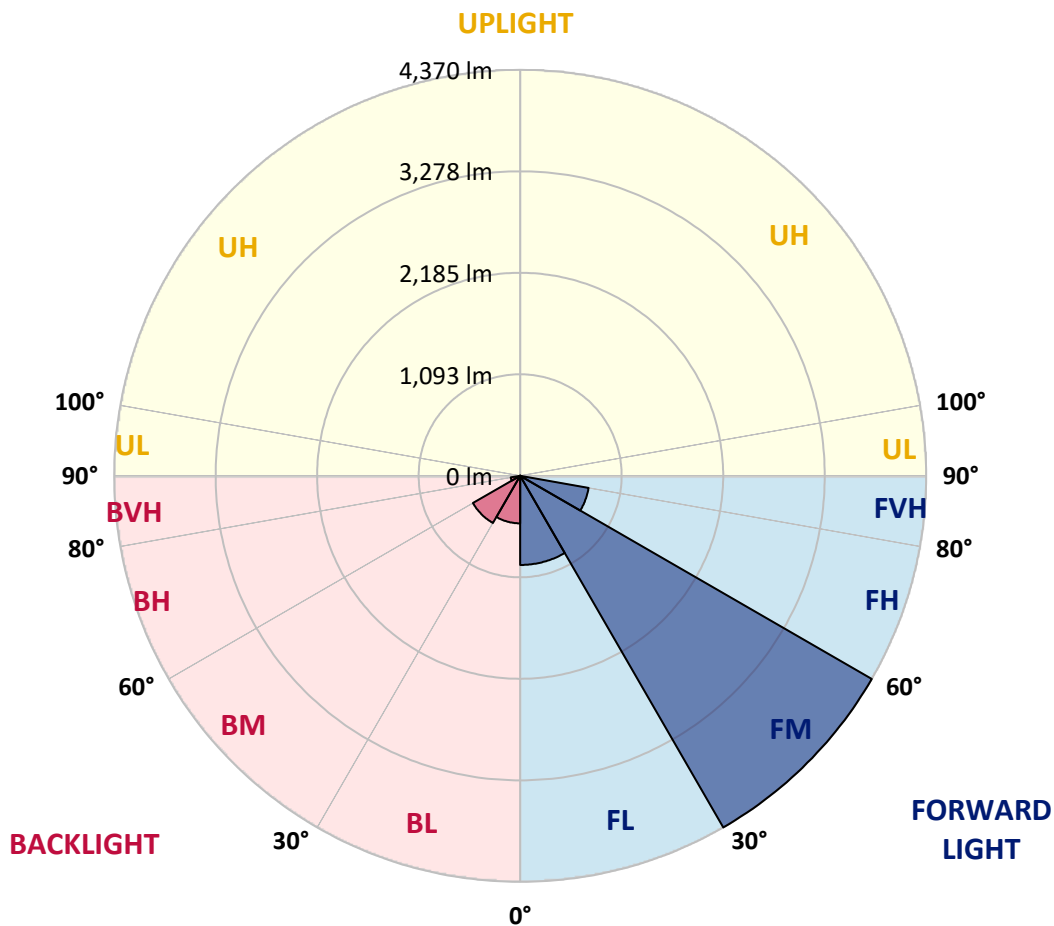
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	959.6	13.2			
FM (30°-60°)	4370.4	60.0			
FH (60°-80°)	747.9	10.3			G1/1800
FVH (80°-90°)	4.3	0.1			G0/10
BL (0°-30°)	511.7	7.0	B2/1000		
BM (30°-60°)	586.8	8.1	B1/1000		
BH (60°-80°)	103.3	1.4	B0/110		G0/110
BVH (80°-90°)	4.0	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	2617.7	2617.7	2617.7	2617.7	2617.7	2617.7	2617.7	2617.7	2617.7	2617.7	2617.7
2.5°	2604.1	2581.1	2604.1	2606.9	2623.2	2638.1	2628.6	2650.3	2638.1	2624.5	2620.4
5°	2393.7	2424.9	2426.3	2475.2	2464.3	2553.9	2593.3	2582.4	2649.0	2644.9	2635.4
7.5°	2205.0	2192.8	2209.0	2266.1	2338.0	2441.2	2498.2	2496.9	2591.9	2659.8	2653.0
10°	2029.8	2028.5	2062.4	2107.2	2168.3	2276.9	2355.7	2395.1	2543.1	2646.2	2661.2
12.5°	1911.7	1906.3	1942.9	1979.6	2076.0	2160.2	2260.6	2279.6	2449.4	2598.7	2623.2
15°	1834.3	1846.5	1849.2	1919.8	1980.9	2092.3	2171.0	2210.4	2405.9	2560.7	2654.4
17.5°	1820.7	1837.0	1838.4	1896.8	1961.9	2055.6	2124.9	2177.8	2369.3	2579.7	2655.7
20°	1847.9	1838.4	1846.5	1883.2	1947.0	2036.6	2137.1	2154.7	2357.0	2589.2	2670.7
22.5°	1925.3	1922.6	1902.2	1932.1	1976.9	2070.6	2165.6	2192.8	2392.3	2638.1	2682.9
25°	2010.8	2025.8	2006.7	2002.7	2033.9	2126.2	2252.5	2287.8	2510.5	2726.3	2720.9
27.5°	2171.0	2156.1	2156.1	2137.1	2128.9	2173.7	2346.2	2404.6	2642.2	2840.4	2764.4
30°	2324.5	2340.7	2328.5	2335.3	2281.0	2276.9	2479.2	2551.2	2875.7	3014.2	2856.7
32.5°	2567.5	2545.8	2566.1	2548.5	2476.5	2403.2	2659.8	2734.5	3158.1	3213.8	2995.2
35°	2769.8	2760.3	2847.2	2844.5	2727.7	2655.7	2851.3	2962.6	3355.0	3452.7	3158.1
37.5°	3057.6	3040.0	3139.1	3186.6	3082.1	2974.8	3125.5	3254.5	3538.3	3644.2	3325.1
40°	3353.6	3398.4	3531.5	3610.2	3498.9	3356.3	3460.9	3500.3	3660.5	3769.1	3439.2
42.5°	3728.4	3793.5	3929.3	3997.2	3987.7	3832.9	3801.7	3800.3	3748.7	3733.8	3523.3
45°	4088.2	4063.7	4272.8	4420.8	4540.3	4495.5	4130.3	4089.5	3888.6	3786.7	3545.1
47.5°	4245.7	4237.5	4380.1	4643.5	5050.8	5106.5	4608.2	4450.7	4124.8	4009.4	3663.2
50°	4042.0	4084.1	4225.3	4517.2	5141.8	5566.7	5194.7	4982.9	4400.4	4281.0	3942.9
52.5°	3376.7	3405.2	3539.6	3910.3	4832.2	5838.3	5756.8	5634.6	4906.9	4708.6	4430.3
54°	2776.6	2852.6	2925.9	3298.0	4281.0	5687.6	6065.0	5971.3	5236.8	5064.4	4737.2
55°	2418.1	2462.9	2515.9	2886.6	3899.4	5432.3	6029.7	6037.9	5458.1	5175.7	4943.5
57.5°	1766.4	1797.7	1743.3	1907.6	2677.5	4411.3	5515.1	5735.1	5756.8	5342.7	5069.8
60°	1349.6	1363.2	1302.1	1327.9	1664.6	3027.8	4266.0	4530.8	5193.4	4669.3	4294.5
62.5°	1046.8	1049.5	1048.2	1093.0	1147.3	1781.4	2668.0	2902.9	3580.4	3315.6	2916.4
65°	771.2	759.0	780.7	916.5	978.9	1120.1	1405.3	1576.3	1945.6	1642.9	1174.4
67.5°	499.6	503.7	525.4	681.6	839.1	859.5	864.9	851.3	852.7	469.8	294.6
70°	300.1	306.8	300.1	385.6	600.1	616.4	563.5	549.9	429.0	111.3	110.0
72.5°	177.9	168.4	150.7	165.6	249.8	298.7	268.8	267.5	168.4	65.2	65.2
75°	74.7	67.9	55.7	50.2	66.5	63.8	63.8	57.0	44.8	43.4	40.7
77.5°	14.9	14.9	10.9	12.2	16.3	19.0	23.1	23.1	27.2	27.2	25.8
80°	0.0	1.4	4.1	8.1	12.2	17.7	20.4	20.4	23.1	23.1	19.0
82.5°	0.0	1.4	4.1	8.1	10.9	16.3	20.4	20.4	23.1	24.4	20.4
85°	0.0	1.4	4.1	6.8	10.9	13.6	13.6	12.2	9.5	8.1	5.4
87.5°	0.0	0.0	1.4	2.7	1.4	2.7	2.7	2.7	2.7	2.7	2.7
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°	2617.7	2617.7	2617.7	2617.7	2617.7	2617.7	2617.7	2617.7	2617.7	2617.7	2617.7
2.5°	2629.9	2628.6	2596.0	2543.1	2530.8	2486.0	2480.6	2453.4	2468.4	2418.1	2412.7
5°	2608.2	2591.9	2552.6	2518.6	2419.5	2348.9	2293.2	2225.3	2186.0	2192.8	2167.0
7.5°	2639.5	2597.4	2528.1	2410.0	2289.2	2165.6	2099.1	1960.6	1910.3	1835.7	1824.8
10°	2606.9	2575.6	2468.4	2272.9	2105.9	1928.0	1771.9	1618.4	1501.7	1451.4	1440.6
12.5°	2604.1	2549.8	2370.6	2153.4	1911.7	1656.4	1429.7	1238.3	1122.9	1057.7	1042.7
15°	2562.1	2496.9	2260.6	1968.7	1634.7	1317.0	1069.9	885.2	797.0	759.0	769.8
17.5°	2566.1	2468.4	2150.7	1773.2	1361.8	966.7	730.5	635.4	612.3	621.8	621.8
20°	2562.1	2404.6	2017.6	1547.8	1042.7	670.7	536.3	502.4	517.3	547.2	540.4
22.5°	2540.3	2374.7	1895.4	1310.2	767.1	496.9	430.4	431.8	454.8	491.5	499.6
25°	2556.6	2308.2	1740.6	1069.9	559.4	396.5	373.4	382.9	407.3	434.5	439.9
27.5°	2544.4	2260.6	1579.1	830.9	408.7	340.8	339.4	350.3	361.2	381.5	381.5
30°	2558.0	2217.2	1420.2	617.8	336.7	312.3	306.8	315.0	325.9	329.9	328.6
32.5°	2608.2	2184.6	1236.9	461.6	297.3	285.1	285.1	285.1	283.8	289.2	290.6
35°	2718.2	2190.0	1075.3	357.1	271.5	262.0	258.0	252.5	249.8	252.5	253.9
37.5°	2837.7	2187.3	908.3	304.1	252.5	244.4	234.9	226.7	225.4	228.1	224.0
40°	2890.6	2213.1	753.5	272.9	234.9	225.4	210.5	203.7	205.0	207.7	205.0
42.5°	2962.6	2221.3	653.1	248.5	218.6	203.7	194.2	186.0	184.7	188.7	187.4
45°	2961.2	2175.1	547.2	234.9	203.7	187.4	175.1	168.4	168.4	171.1	172.4
47.5°	3048.1	2168.3	469.8	222.7	192.8	176.5	161.6	156.1	154.8	154.8	152.1
50°	3250.4	2263.4	410.0	209.1	179.2	164.3	152.1	145.3	139.8	137.1	135.8
52.5°	3645.5	2559.3	363.9	192.8	164.3	152.1	141.2	135.8	129.0	122.2	120.8
54°	4028.4	2864.8	361.2	179.2	152.1	143.9	134.4	131.7	123.6	114.1	111.3
55°	4200.9	3042.7	370.7	168.4	143.9	138.5	130.3	127.6	119.5	108.6	107.3
57.5°	4343.4	3111.9	365.2	139.8	130.3	129.0	122.2	118.1	108.6	93.7	91.0
60°	3496.2	2353.0	262.0	123.6	119.5	116.8	111.3	108.6	96.4	80.1	78.7
62.5°	2209.0	1353.7	167.0	108.6	104.5	100.5	93.7	91.0	80.1	63.8	59.7
65°	940.9	560.7	112.7	96.4	89.6	82.8	77.4	73.3	63.8	47.5	46.2
67.5°	244.4	199.6	93.7	84.2	74.7	65.2	61.1	54.3	43.4	32.6	31.2
70°	110.0	100.5	78.7	70.6	59.7	50.2	44.8	38.0	28.5	21.7	20.4
72.5°	65.2	63.8	59.7	53.0	44.8	38.0	32.6	25.8	19.0	12.2	12.2
75°	40.7	39.4	40.7	36.7	31.2	28.5	24.4	17.7	10.9	5.4	5.4
77.5°	24.4	24.4	24.4	23.1	21.7	21.7	17.7	10.9	5.4	1.4	1.4
80°	19.0	19.0	20.4	19.0	19.0	19.0	14.9	8.1	2.7	0.0	0.0
82.5°	19.0	20.4	23.1	21.7	19.0	16.3	13.6	8.1	2.7	0.0	0.0
85°	5.4	4.1	6.8	9.5	13.6	12.2	9.5	6.8	2.7	0.0	0.0
87.5°	2.7	2.7	2.7	2.7	1.4	1.4	1.4	1.4	1.4	0.0	0.0
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)