

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: P527479

Luminaire Tested: **GALN-SA2C-730-U-SL3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P527479
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-19)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA2C-730-U-SL3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7530 lumens
Efficiency: N/A
Efficacy: 69.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

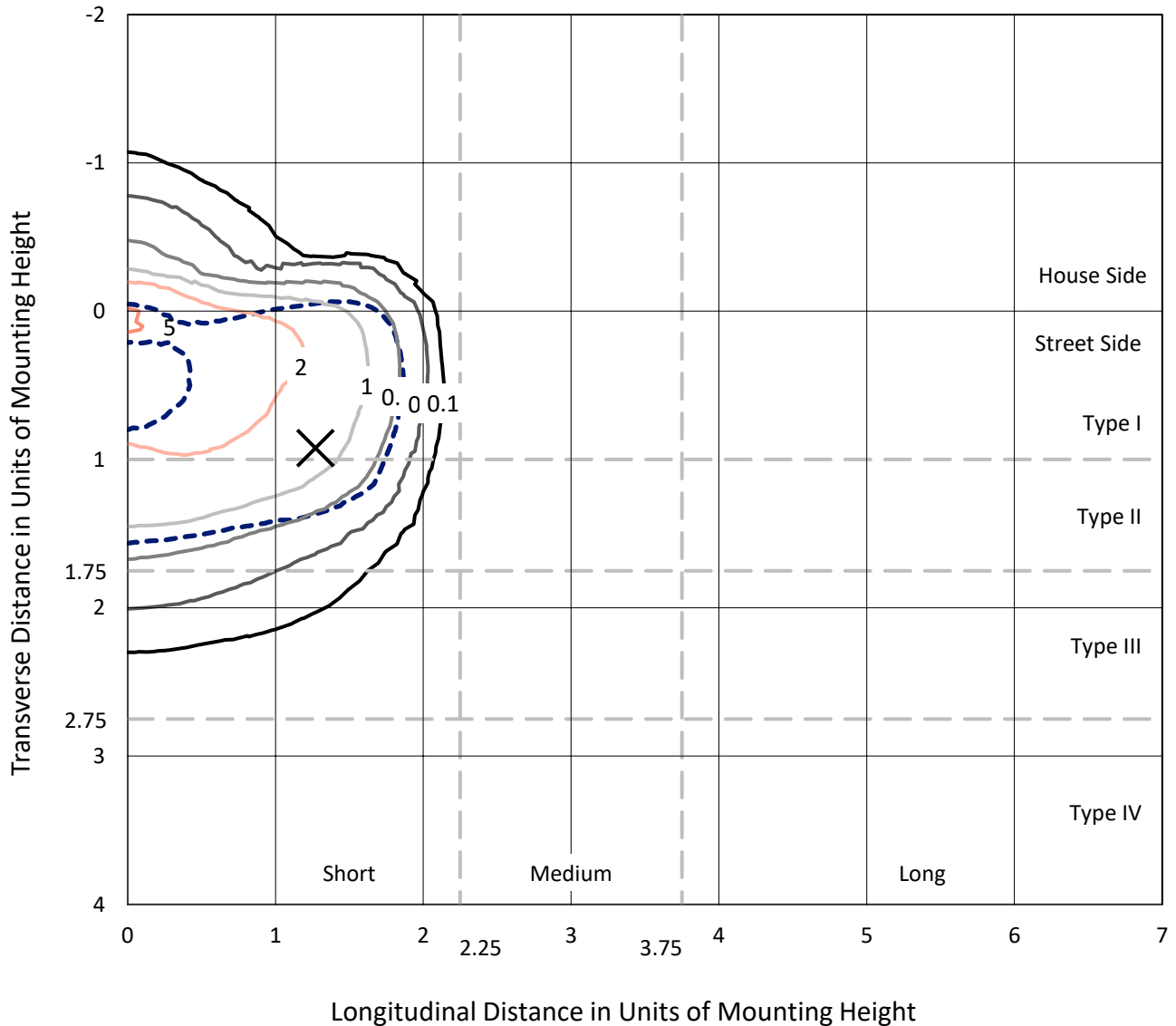
Input Watts (W): 108
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

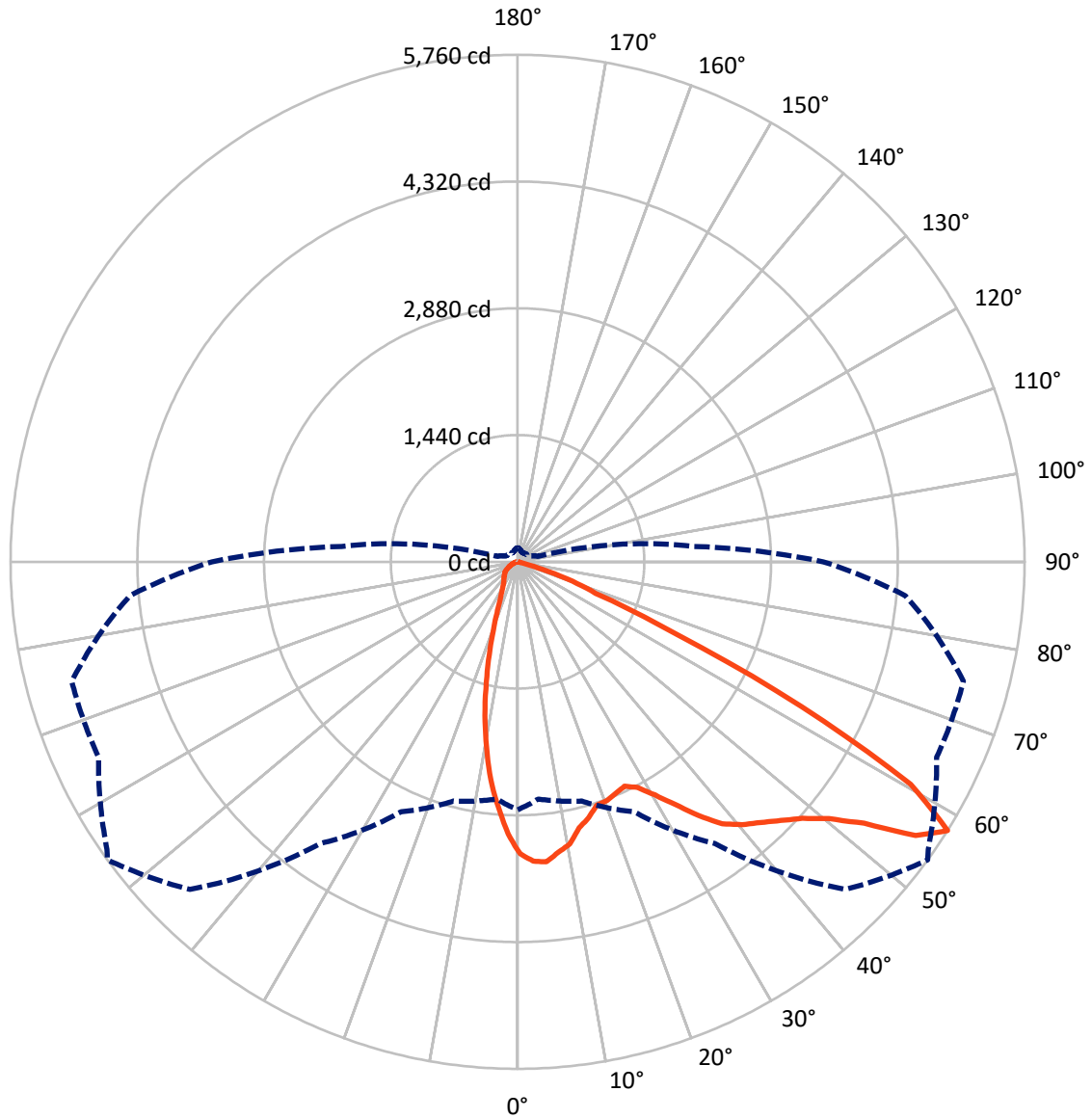
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.3 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1064.1	0.0	1064.1
	% Fixture	14.1	0.0	14.1
Street Side	Lumens	6465.9	0.0	6465.9
	% Fixture	85.9	0.0	85.9
Total	Lumens	7530.0	0.0	7530.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	277.6	3.7
10°-20°	592.6	7.9
20°-30°	785.3	10.4
30°-40°	1141.3	15.2
40°-50°	1692.4	22.5
50°-60°	2116.3	28.1
60°-70°	834.8	11.1
70°-80°	83.1	1.1
80°-90°	6.5	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°	7530.0	100.0
0°-180°	7530.0	100.0

Coefficient of Utilization

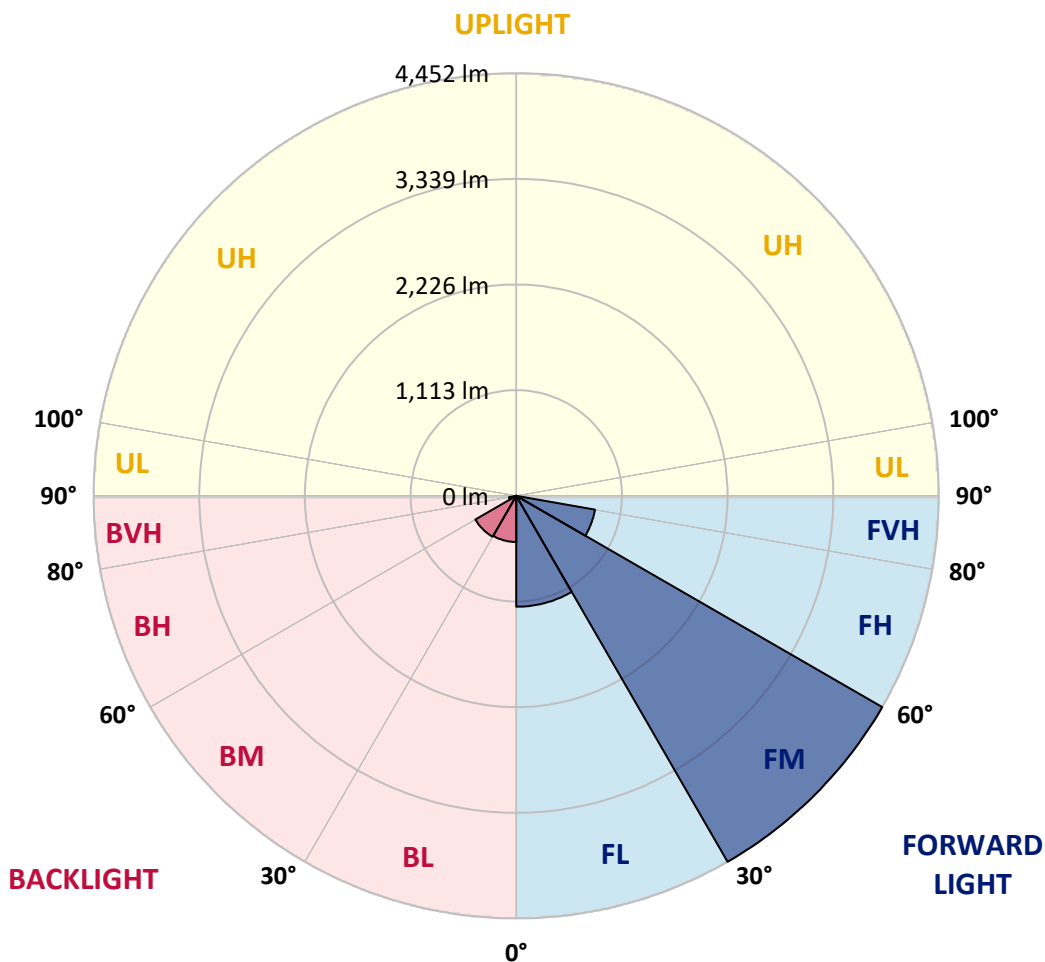


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1168.9	15.5			
FM (30°-60°)	4452.5	59.1			
FH (60°-80°)	841.6	11.2			G1/1800
FVH (80°-90°)	2.9	0.0			G0/10
BL (0°-30°)	486.7	6.5	B1/500		
BM (30°-60°)	497.6	6.6	B1/1000		
BH (60°-80°)	76.3	1.0	B0/110		G0/110
BVH (80°-90°)	3.5	0.0			G0/10
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°	54°	55°	65°	75°	85°
0°	3317.1	3317.1	3317.1	3317.1	3317.1	3317.1	3317.1	3317.1	3317.1	3317.1	3317.1
2.5°	3510.3	3473.9	3476.7	3464.1	3447.3	3459.9	3405.3	3417.9	3416.5	3342.3	3293.3
5°	3422.1	3461.3	3420.7	3454.3	3422.1	3457.1	3423.5	3398.3	3357.7	3303.1	3212.1
7.5°	3272.3	3234.5	3245.7	3287.7	3294.7	3373.1	3331.1	3363.3	3346.5	3238.7	3114.0
10°	2971.2	2962.8	3018.8	3074.8	3143.4	3227.5	3259.7	3241.5	3228.9	3188.2	3021.6
12.5°	2740.2	2764.0	2762.6	2855.0	2971.2	3018.8	3102.8	3100.0	3170.0	3094.4	2934.8
15°	2520.4	2533.0	2591.8	2649.2	2778.0	2913.8	3017.4	3031.4	3115.4	3062.2	2867.6
17.5°	2385.9	2367.7	2413.9	2482.5	2614.2	2792.0	2906.8	2940.4	3055.2	3044.0	2790.6
20°	2252.9	2252.9	2290.7	2371.9	2492.4	2692.6	2897.0	2887.2	3055.2	3023.0	2708.0
22.5°	2208.1	2230.5	2240.3	2301.9	2444.7	2617.0	2855.0	2873.2	3079.0	3013.2	2671.6
25°	2269.7	2240.3	2243.1	2292.1	2426.5	2580.6	2824.2	2864.8	3122.4	3062.2	2642.2
27.5°	2279.5	2308.9	2317.3	2350.9	2440.5	2591.8	2901.2	2983.8	3230.3	3177.0	2650.6
30°	2364.9	2394.3	2392.9	2450.3	2512.0	2682.8	3073.4	3090.2	3452.9	3321.3	2702.4
32.5°	2468.5	2499.4	2509.2	2576.4	2625.4	2849.4	3283.5	3326.9	3667.1	3548.1	2838.2
35°	2597.4	2586.2	2631.0	2698.2	2803.2	3093.0	3539.7	3612.5	3898.1	3842.1	2978.2
37.5°	2758.4	2744.4	2787.8	2897.0	3039.8	3381.5	3776.3	3823.9	4066.2	4115.2	3237.3
40°	2871.8	2877.4	3009.0	3156.0	3307.3	3655.9	3926.2	3972.4	4183.8	4370.0	3433.3
42.5°	3060.8	3095.8	3254.1	3433.3	3591.5	3861.7	4048.0	4092.8	4238.4	4574.4	3697.9
45°	3335.3	3319.9	3494.9	3695.1	3870.1	4076.0	4192.2	4176.8	4270.6	4777.5	3864.5
47.5°	3688.1	3690.9	3807.1	3978.0	4160.0	4262.2	4353.2	4298.6	4337.8	4991.7	4087.2
50°	3929.0	3950.0	4043.8	4218.8	4309.8	4466.6	4582.8	4549.2	4536.6	5120.5	4227.2
52.5°	3990.6	4053.6	4104.0	4322.4	4535.2	4783.1	4931.5	5002.9	4778.9	5163.9	4405.0
55°	3525.7	3581.7	3759.5	4059.2	4620.6	5284.3	5488.8	5490.2	5095.3	5357.2	4529.6
57.5°	2818.6	2705.2	2814.4	3132.2	3906.5	5263.3	5760.4	5694.6	5253.5	5243.7	4421.8
60°	1949.1	1921.1	1928.1	2054.1	2703.8	4186.6	5133.1	5218.5	4837.7	4545.0	3500.5
62.5°	1544.4	1520.6	1489.8	1475.8	1678.8	2608.6	3620.9	3741.3	3382.9	2947.4	2075.1
65°	1209.8	1195.8	1200.0	1256.0	1254.6	1480.0	1979.9	1930.9	1545.8	1142.6	652.5
67.5°	816.3	837.3	854.1	1023.5	1110.4	1030.5	956.3	928.3	502.7	211.4	144.2
70°	459.3	462.1	480.3	639.9	842.9	799.5	659.5	659.5	250.6	77.0	82.6
72.5°	250.6	242.2	225.4	275.8	375.3	380.9	294.0	256.2	74.2	50.4	46.2
75°	121.8	120.4	103.6	85.4	81.2	67.2	51.8	47.6	33.6	32.2	28.0
77.5°	25.2	23.8	12.6	12.6	14.0	15.4	19.6	19.6	23.8	23.8	19.6
80°	0.0	0.0	1.4	5.6	9.8	14.0	16.8	16.8	19.6	19.6	15.4
82.5°	0.0	0.0	1.4	4.2	8.4	12.6	15.4	16.8	19.6	21.0	16.8
85°	0.0	0.0	0.0	2.8	7.0	9.8	8.4	8.4	7.0	5.6	2.8
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3317.1	3317.1	3317.1	3317.1	3317.1	3317.1	3317.1	3317.1	3317.1	3317.1	3317.1
2.5°	3268.1	3265.3	3200.9	3164.4	3098.6	3041.2	2995.0	2961.4	2961.4	2940.4	2920.8
5°	3175.6	3151.8	3014.6	2926.4	2801.8	2709.4	2646.4	2597.4	2520.4	2541.4	2458.7
7.5°	3060.8	3000.6	2818.6	2684.2	2512.0	2380.3	2245.9	2126.9	2012.1	1960.3	1988.3
10°	2937.6	2832.6	2587.6	2374.7	2160.5	1919.7	1762.8	1572.4	1454.8	1447.8	1417.0
12.5°	2807.4	2688.4	2390.1	2096.1	1814.7	1524.8	1285.4	1107.6	1027.7	939.5	956.3
15°	2709.4	2533.0	2170.3	1816.1	1442.2	1149.6	908.7	771.5	695.9	674.9	667.9
17.5°	2603.0	2413.9	1946.3	1517.8	1131.4	827.5	653.9	588.1	558.7	558.7	554.5
20°	2492.4	2279.5	1723.6	1240.6	848.5	617.5	523.7	502.7	501.3	499.9	499.9
22.5°	2419.5	2125.5	1522.0	985.7	639.9	494.3	455.1	446.7	452.3	469.1	469.1
25°	2342.5	1977.1	1299.4	760.3	495.7	424.3	401.9	407.5	421.5	436.9	431.3
27.5°	2264.1	1880.5	1089.4	596.5	406.1	371.1	362.7	375.3	390.7	404.7	400.5
30°	2245.9	1776.8	890.5	452.3	348.6	323.4	329.0	340.2	355.7	361.3	366.9
32.5°	2273.9	1695.6	729.5	371.1	303.8	296.8	296.8	302.4	312.2	324.8	320.6
35°	2353.7	1649.4	576.9	322.0	278.6	271.6	270.2	275.8	281.4	285.6	281.4
37.5°	2475.5	1613.0	471.9	285.6	261.8	250.6	247.8	246.4	252.0	253.4	256.2
40°	2631.0	1632.6	400.5	263.2	245.0	232.4	224.0	224.0	224.0	228.2	229.6
42.5°	2799.0	1659.2	345.8	250.6	229.6	214.2	205.8	203.0	205.8	211.4	210.0
45°	2975.4	1711.0	310.8	231.0	215.6	196.0	184.8	182.0	189.0	200.2	198.8
47.5°	3140.6	1785.3	284.2	218.4	201.6	183.4	169.4	166.6	179.2	194.6	196.0
50°	3305.9	1914.1	274.4	208.6	191.8	170.8	158.2	155.4	169.4	189.0	193.2
52.5°	3496.3	2052.7	267.4	196.0	180.6	161.0	147.0	144.2	159.6	184.8	186.2
55°	3620.9	2170.3	261.8	173.6	159.6	145.6	134.4	133.0	149.8	172.2	177.8
57.5°	3475.3	2006.5	242.2	151.2	135.8	128.8	119.0	119.0	133.0	154.0	158.2
60°	2635.2	1320.4	172.2	121.8	114.8	110.6	106.4	106.4	117.6	133.0	134.4
62.5°	1543.0	711.3	110.6	98.0	98.0	93.8	86.8	86.8	98.0	106.4	107.8
65°	457.9	228.2	89.6	84.0	82.6	75.6	68.6	67.2	75.6	79.8	78.4
67.5°	131.6	105.0	74.2	70.0	68.6	57.4	53.2	51.8	53.2	50.4	49.0
70°	78.4	71.4	57.4	58.8	51.8	42.0	37.8	36.4	33.6	29.4	26.6
72.5°	43.4	43.4	42.0	44.8	36.4	28.0	23.8	19.6	15.4	12.6	11.2
75°	26.6	28.0	29.4	30.8	23.8	18.2	15.4	9.8	5.6	2.8	2.8
77.5°	18.2	19.6	21.0	22.4	19.6	16.8	12.6	7.0	1.4	0.0	0.0
80°	14.0	15.4	18.2	19.6	21.0	22.4	16.8	7.0	1.4	0.0	0.0
82.5°	15.4	16.8	21.0	19.6	19.6	19.6	15.4	7.0	1.4	0.0	0.0
85°	2.8	4.2	7.0	7.0	9.8	12.6	9.8	2.8	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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)