

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: P530271

Luminaire Tested: **GALN-SA5C-727-U-T3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P530271
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-15)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA5C-727-U-T3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17583 lumens
Efficiency: N/A
Efficacy: 65.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G1

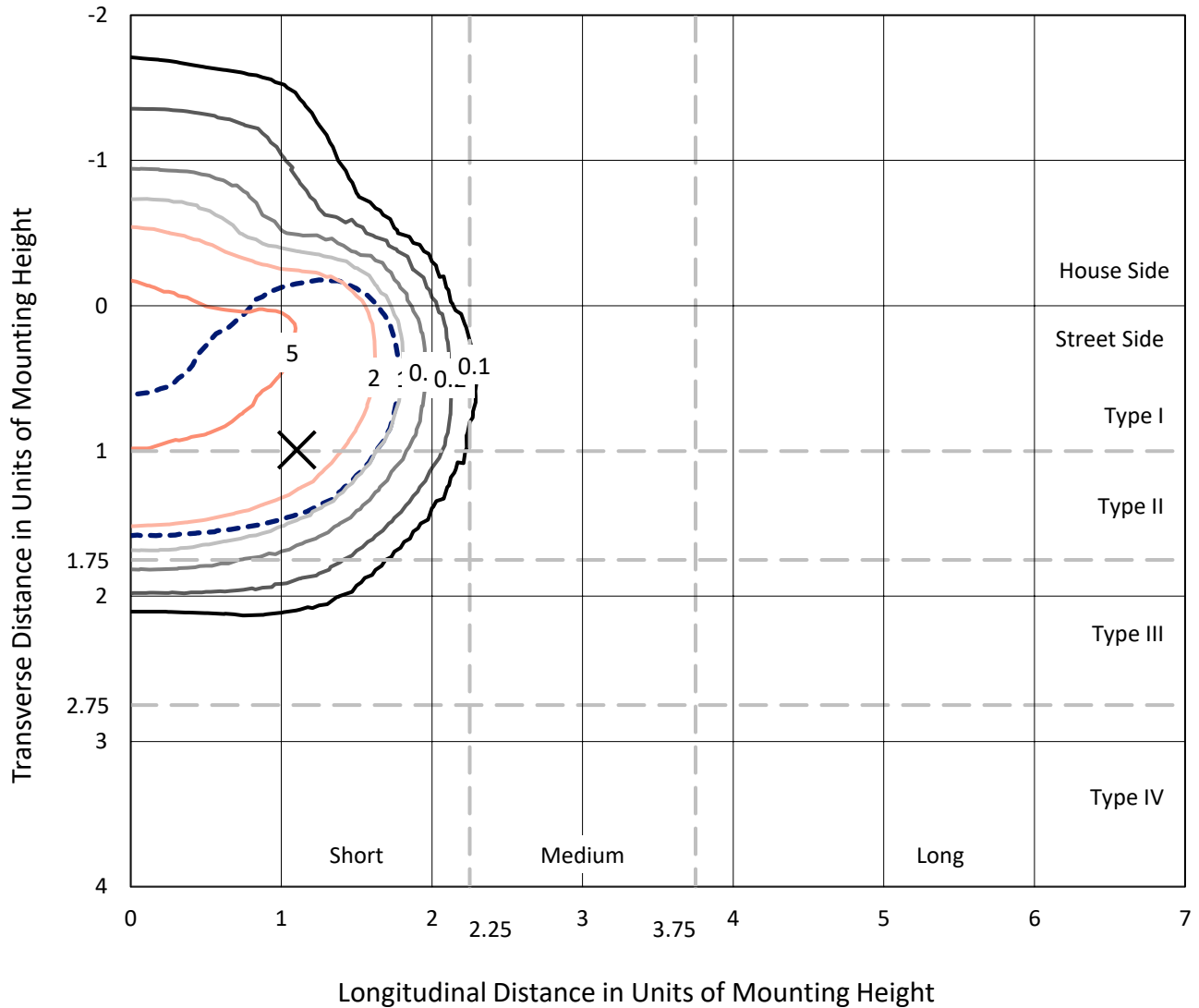
Input Watts (W): 269
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

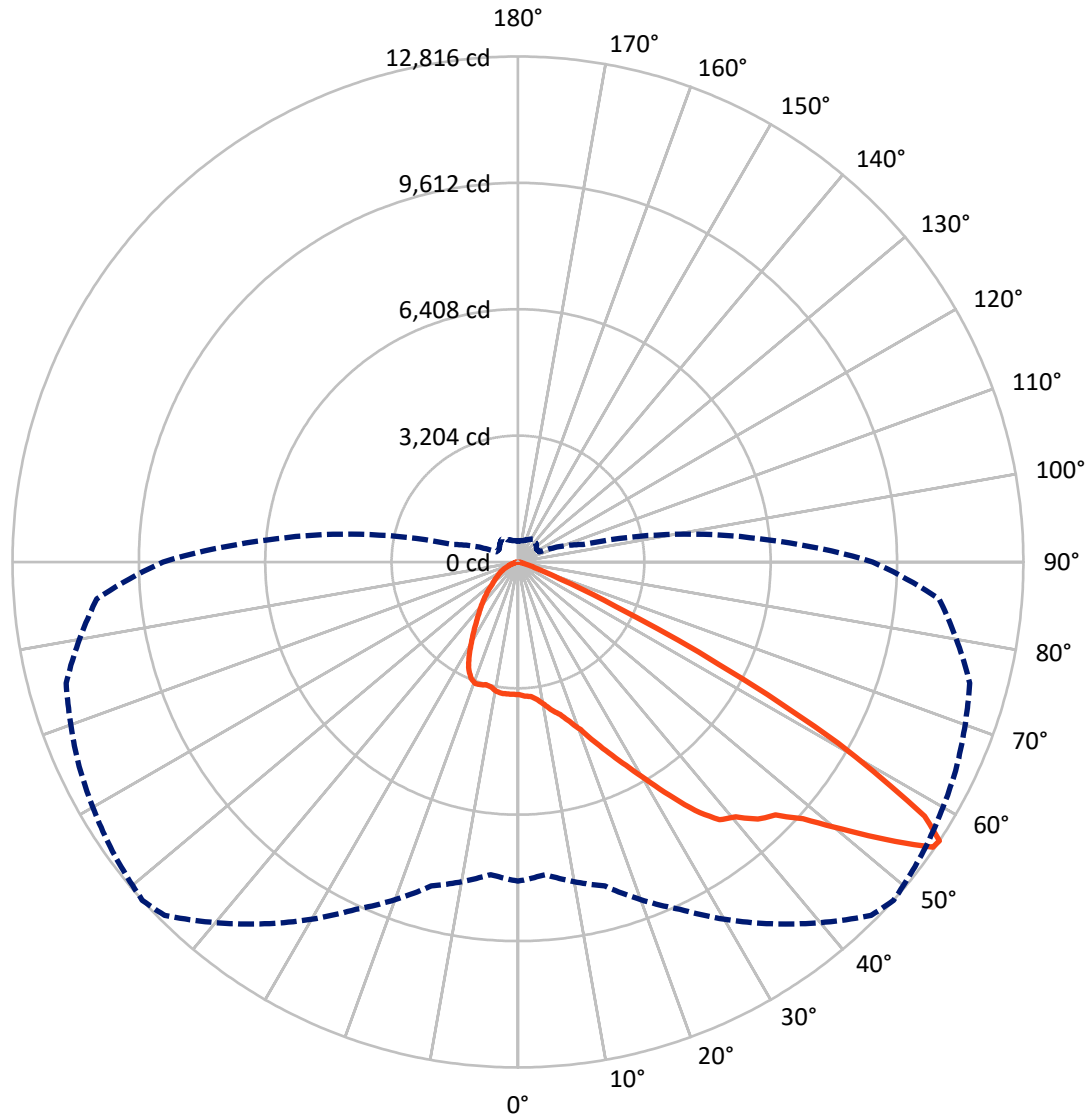
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 48-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3824.0	0.0	3824.0
	% Fixture	21.7	0.0	21.7
Street Side	Lumens	13759.0	0.0	13759.0
	% Fixture	78.3	0.0	78.3
Total	Lumens	17583.0	0.0	17583.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	327.1	1.9
10°-20°	1045.5	5.9
20°-30°	1896.3	10.8
30°-40°	2978.7	16.9
40°-50°	4345.4	24.7
50°-60°	5235.4	29.8
60°-70°	1532.9	8.7
70°-80°	194.5	1.1
80°-90°	27.3	0.2
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°	17583.0	100.0
0°-180°	17583.0	100.0

Coefficient of Utilization

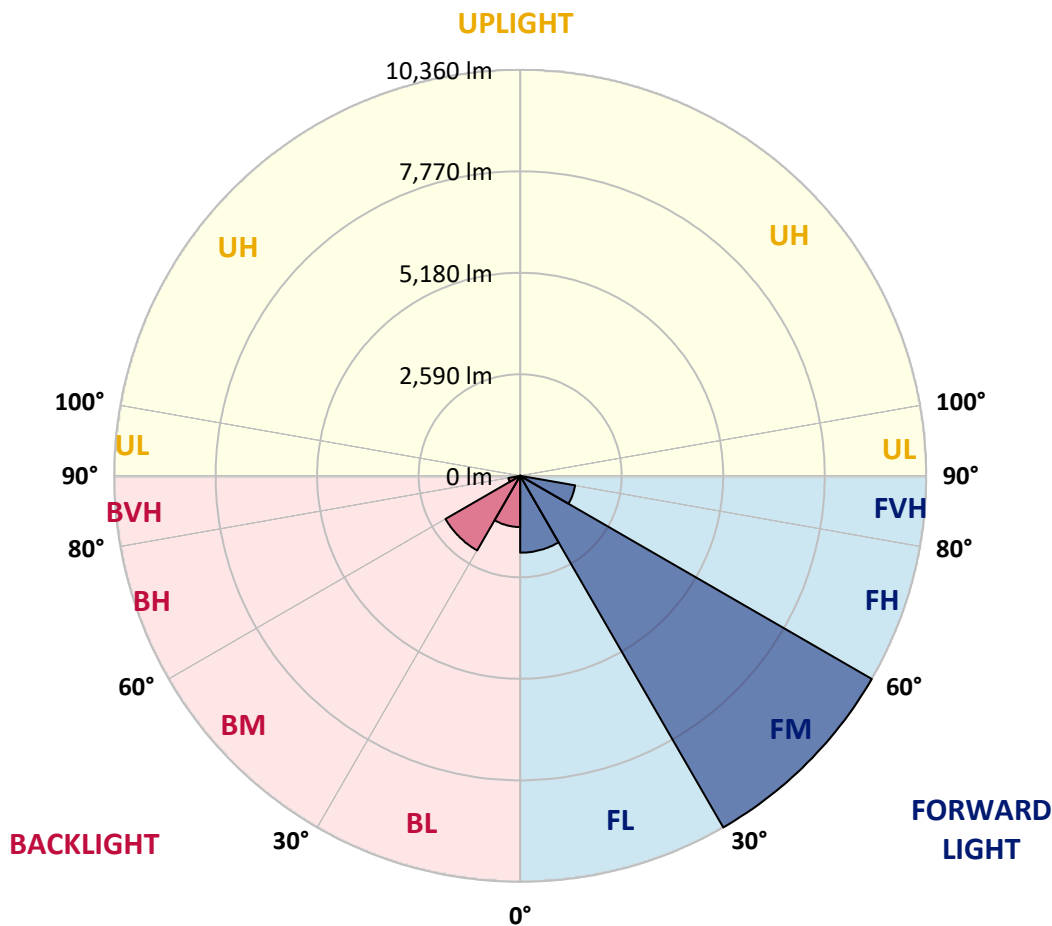


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1961.9	11.2			
FM (30°-60°)	10359.9	58.9			
FH (60°-80°)	1423.5	8.1			G1/1800
FVH (80°-90°)	13.7	0.1			G1/100
BL (0°-30°)	1307.0	7.4	B3/2500		
BM (30°-60°)	2199.5	12.5	B2/2500		
BH (60°-80°)	303.8	1.7	B1/500		G1/500
BVH (80°-90°)	13.6	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G1
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	48°	55°	65°	75°	85°
0°	3358.4	3358.4	3358.4	3358.4	3358.4	3358.4	3358.4	3358.4	3358.4	3358.4	3358.4
2.5°	3419.2	3403.2	3403.2	3377.6	3406.4	3393.6	3403.2	3371.2	3403.2	3355.2	3393.6
5°	3435.2	3438.4	3425.6	3441.6	3441.6	3460.8	3428.8	3457.6	3473.6	3438.4	3422.4
7.5°	3518.4	3524.8	3521.6	3508.8	3534.4	3531.2	3528.0	3505.6	3512.0	3499.2	3480.0
10°	3681.7	3678.5	3694.5	3662.5	3643.3	3665.7	3672.1	3636.9	3611.3	3601.7	3540.8
12.5°	3918.6	3880.2	3857.8	3825.8	3835.4	3803.4	3861.0	3800.2	3787.4	3729.7	3668.9
15°	4110.7	4104.3	4107.5	4056.3	3998.7	4011.5	4011.5	3979.4	3960.2	3889.8	3803.4
17.5°	4504.5	4370.0	4398.8	4334.8	4286.8	4283.6	4254.8	4261.2	4210.0	4062.7	3931.4
20°	4811.8	4754.2	4709.4	4600.5	4526.9	4549.3	4536.5	4504.5	4488.5	4296.4	4110.7
22.5°	5087.2	5106.4	5032.7	5003.9	4901.5	4911.1	4936.7	4907.9	4786.2	4587.7	4312.4
25°	5474.5	5452.1	5352.9	5317.7	5221.6	5256.8	5356.1	5333.7	5256.8	4898.3	4469.3
27.5°	5932.4	5855.5	5874.7	5714.7	5621.8	5721.1	5839.5	5951.6	5733.9	5263.2	4655.0
30°	6255.7	6175.7	6169.3	6162.9	6140.5	6255.7	6393.4	6495.8	6319.7	5628.2	4962.3
32.5°	6415.8	6435.0	6489.4	6470.2	6665.5	6902.4	7046.5	7193.7	6972.8	6223.7	5368.9
35°	6841.6	6719.9	6841.6	6854.4	7056.1	7558.7	7741.2	8093.4	8038.9	7065.7	5865.1
37.5°	7091.3	7081.7	7097.7	7219.4	7414.6	8035.7	8295.1	8567.2	8464.7	7571.5	6483.0
40°	7504.3	7529.9	7526.7	7619.5	7834.0	8394.3	8499.9	8720.9	8730.5	8272.6	7392.2
42.5°	8167.0	8064.5	7997.3	8093.4	8394.3	8704.8	8916.1	8871.3	9188.3	9124.2	8560.8
45°	8762.5	8823.3	8724.1	8884.1	8993.0	9159.5	9153.1	9249.1	9652.5	9956.6	9441.2
47.5°	9319.5	9357.9	9406.0	9514.8	9751.7	9777.3	9722.9	9681.3	10238.4	10552.1	10123.1
50°	9652.5	9687.7	9911.8	10107.1	10548.9	10606.5	10638.5	10532.9	10910.7	10945.9	10766.6
52.5°	9562.8	9601.3	9915.0	10558.5	11262.8	11791.1	11695.0	11515.8	11493.3	11631.0	11362.1
55°	8768.9	8733.7	9165.9	10167.9	11486.9	12754.7	12767.5	12578.6	12216.9	12124.0	11272.4
56°	8093.4	7955.7	8506.4	9716.5	11198.8	12671.5	12815.6	12613.9	12274.5	11858.3	10718.6
57.5°	6630.3	6761.5	7309.0	8311.1	10203.1	12072.8	12156.0	12108.0	11851.9	11154.0	9431.6
60°	3656.1	3886.6	4370.0	5596.2	7264.2	9265.1	9332.3	9722.9	9770.9	8541.6	6489.4
62.5°	1552.7	1527.1	2029.7	2932.6	4136.3	5593.0	5717.9	6118.0	6191.7	4923.9	3255.9
65°	630.7	665.9	918.8	1475.9	2186.6	2548.4	2724.5	2855.7	3099.0	2032.9	1200.6
67.5°	416.2	413.0	541.1	842.0	1178.1	1136.5	1136.5	1200.6	1110.9	829.2	518.6
70°	297.7	307.3	387.4	582.7	733.1	544.3	521.8	499.4	566.7	547.5	419.4
72.5°	195.3	208.1	259.3	349.0	381.0	297.7	297.7	358.6	467.4	441.8	342.6
75°	128.1	131.3	160.1	201.7	188.9	153.7	169.7	240.1	339.4	326.6	243.3
77.5°	86.4	89.6	108.9	131.3	105.6	86.4	92.8	121.7	166.5	166.5	128.1
80°	32.0	35.2	44.8	41.6	48.0	60.8	67.2	83.2	99.2	99.2	86.4
82.5°	0.0	3.2	9.6	22.4	35.2	48.0	54.4	64.0	73.6	83.2	80.0
85°	0.0	3.2	9.6	16.0	25.6	28.8	32.0	22.4	19.2	19.2	16.0
87.5°	0.0	0.0	3.2	3.2	3.2	3.2	3.2	3.2	6.4	3.2	3.2
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°	3358.4	3358.4	3358.4	3358.4	3358.4	3358.4	3358.4	3358.4	3358.4	3358.4	3358.4
2.5°	3358.4	3355.2	3355.2	3345.6	3364.8	3355.2	3361.6	3358.4	3316.7	3348.8	3326.3
5°	3393.6	3416.0	3380.8	3374.4	3348.8	3358.4	3358.4	3326.3	3355.2	3352.0	3345.6
7.5°	3483.2	3444.8	3406.4	3368.0	3361.6	3352.0	3316.7	3303.9	3326.3	3300.7	3339.2
10°	3521.6	3528.0	3470.4	3419.2	3371.2	3303.9	3255.9	3227.1	3191.9	3230.3	3252.7
12.5°	3697.7	3633.7	3534.4	3454.4	3291.1	3223.9	3175.9	3163.1	3223.9	3236.7	3214.3
15°	3758.5	3748.9	3620.9	3441.6	3271.9	3191.9	3201.5	3175.9	3182.3	3150.3	3156.7
17.5°	3883.4	3774.6	3624.1	3400.0	3268.7	3249.5	3191.9	3089.4	3031.8	3006.2	3028.6
20°	4021.1	3915.4	3697.7	3416.0	3297.5	3246.3	3057.4	2932.6	2814.1	2750.1	2753.3
22.5°	4142.7	4011.5	3665.7	3422.4	3323.1	3111.8	2884.5	2638.0	2490.8	2391.5	2394.7
25°	4290.0	4104.3	3678.5	3435.2	3255.9	2897.3	2570.8	2330.7	2154.6	2087.4	2109.8
27.5°	4373.2	4161.9	3748.9	3464.0	3079.8	2593.2	2241.0	2016.9	1914.5	1882.5	1879.3
30°	4622.9	4290.0	3835.4	3406.4	2785.3	2266.7	1940.1	1802.4	1703.2	1674.4	1680.8
32.5°	4994.3	4523.7	3947.4	3255.9	2484.4	1975.3	1744.8	1642.4	1549.5	1495.1	1488.7
35°	5304.9	4923.9	4065.9	3022.2	2135.4	1751.2	1607.1	1479.1	1338.2	1277.4	1261.4
37.5°	5897.1	5375.3	4040.3	2670.0	1802.4	1584.7	1459.9	1303.0	1181.3	1098.1	1088.5
40°	6684.7	5903.5	3915.4	2241.0	1555.9	1437.5	1303.0	1152.5	1002.1	931.6	925.2
42.5°	7642.0	6550.2	3688.1	1805.6	1309.4	1290.2	1168.5	995.7	861.2	810.0	813.2
45°	8419.9	7104.1	3457.6	1450.3	1126.9	1146.1	1040.5	877.2	784.4	742.7	742.7
47.5°	9111.4	7478.7	3207.9	1197.4	957.2	1002.1	909.2	813.2	733.1	701.1	694.7
50°	9777.3	7859.7	2958.2	970.1	816.4	861.2	851.6	774.8	710.7	672.3	675.5
52.5°	10193.5	7920.5	2641.2	794.0	713.9	765.2	797.2	726.7	656.3	633.9	627.5
55°	9684.5	7136.1	2049.0	653.1	605.1	672.3	733.1	653.1	598.7	560.3	557.1
56°	8999.4	6380.6	1712.8	601.9	573.1	646.7	710.7	624.3	563.5	541.1	525.0
57.5°	7619.5	5221.6	1264.6	534.6	531.4	601.9	675.5	595.5	525.0	505.8	505.8
60°	4751.0	2939.0	765.2	448.2	461.0	534.6	608.3	531.4	467.4	467.4	477.0
62.5°	2164.2	1223.0	464.2	381.0	397.0	461.0	541.1	480.2	445.0	480.2	486.6
65°	736.3	528.2	336.2	304.1	313.7	381.0	464.2	486.6	483.4	505.8	518.6
67.5°	413.0	339.4	281.7	252.9	246.5	281.7	381.0	486.6	467.4	457.8	464.2
70°	349.0	288.1	249.7	224.1	214.5	227.3	294.5	368.2	329.8	320.1	313.7
72.5°	281.7	240.1	217.7	201.7	172.9	147.3	134.5	140.9	156.9	166.5	182.5
75°	198.5	182.5	182.5	163.3	124.9	92.8	73.6	60.8	41.6	28.8	32.0
77.5°	112.1	112.1	115.3	99.2	80.0	60.8	44.8	32.0	16.0	6.4	3.2
80°	76.8	83.2	89.6	80.0	67.2	54.4	38.4	22.4	9.6	0.0	0.0
82.5°	76.8	86.4	92.8	80.0	67.2	51.2	38.4	22.4	9.6	3.2	0.0
85°	16.0	19.2	22.4	25.6	38.4	38.4	28.8	19.2	9.6	3.2	0.0
87.5°	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	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)