

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: P531463

Luminaire Tested: **GALN-SA6D-730-U-T2-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P531463
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-13)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA6D-730-U-T2-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24644 lumens
Efficiency: N/A
Efficacy: 67.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

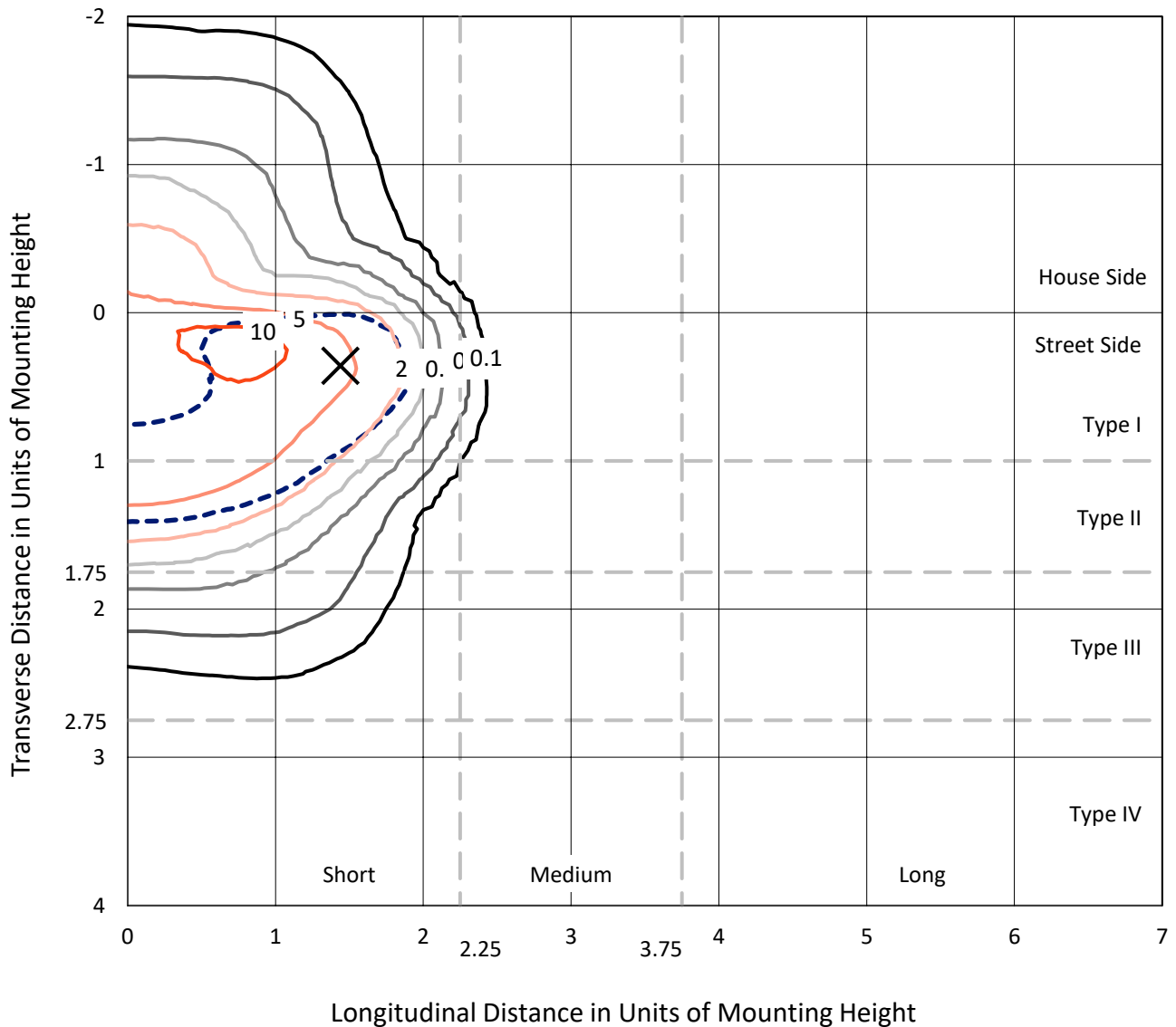
Input Watts (W): 368
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

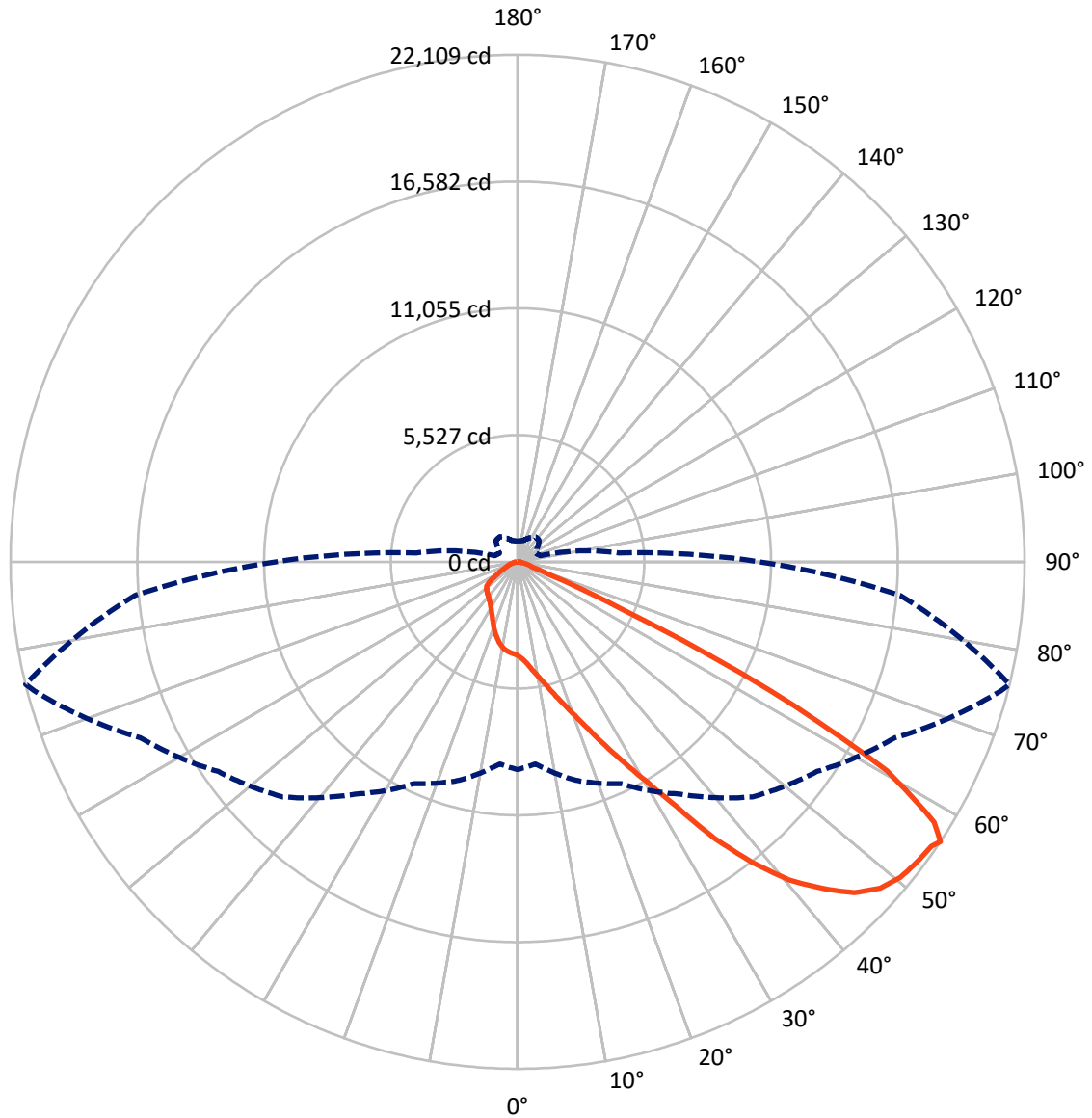
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3871.4	0.0	3871.4
	% Fixture	15.7	0.0	15.7
Street Side	Lumens	20772.6	0.0	20772.6
	% Fixture	84.3	0.0	84.3
Total	Lumens	24644.0	0.0	24644.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	413.2	1.7
10°-20°	1327.5	5.4
20°-30°	2407.2	9.8
30°-40°	4151.3	16.8
40°-50°	6743.9	27.4
50°-60°	7108.3	28.8
60°-70°	2171.9	8.8
70°-80°	278.4	1.1
80°-90°	42.3	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°	24644.0	100.0
0°-180°	24644.0	100.0

Coefficient of Utilization

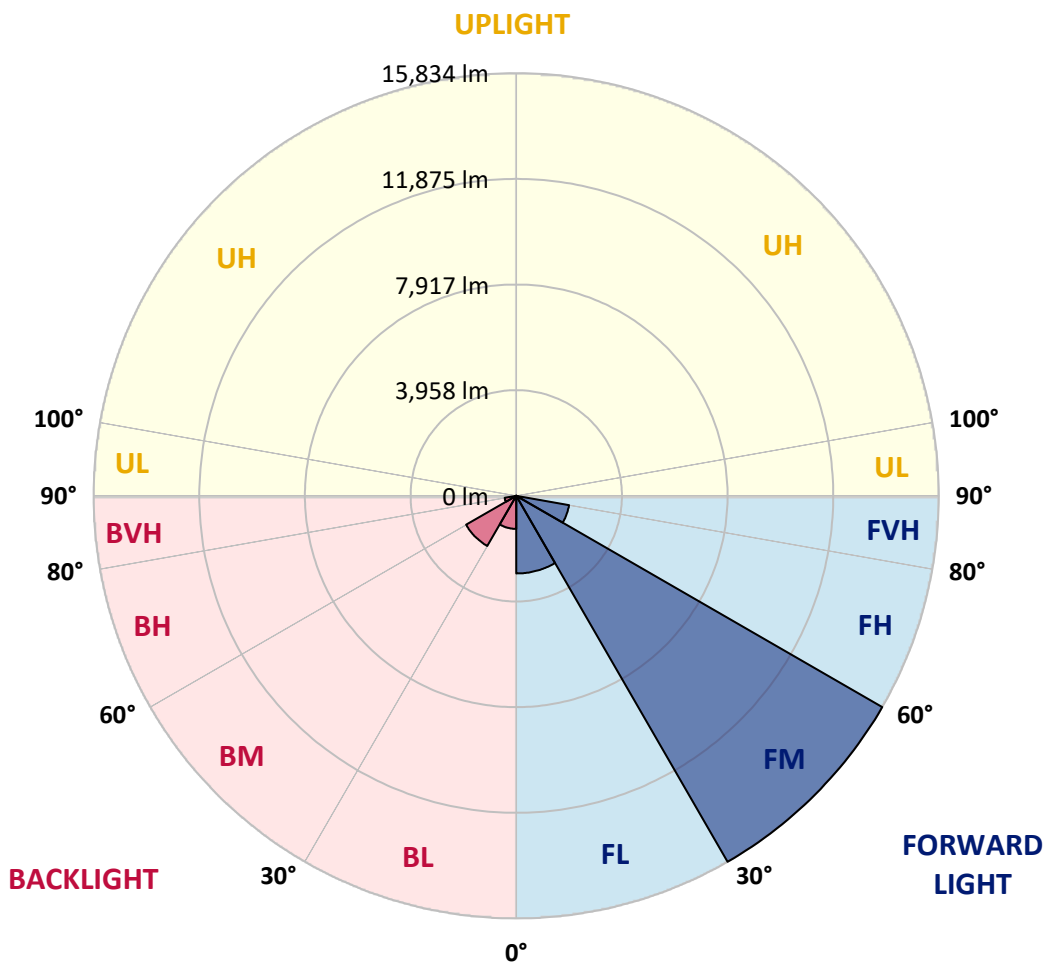


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2909.4	11.8			
FM (30°-60°)	15833.7	64.2			
FH (60°-80°)	2008.6	8.2			G2/5000
FVH (80°-90°)	20.7	0.1			G1/100
BL (0°-30°)	1238.5	5.0	B3/2500		
BM (30°-60°)	2169.7	8.8	B2/2500		
BH (60°-80°)	441.7	1.8	B1/500		G1/500
BVH (80°-90°)	21.6	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-G2
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	4102.0	4102.0	4102.0	4102.0	4102.0	4102.0	4102.0	4102.0	4102.0	4102.0	4102.0
2.5°	4724.4	4615.4	4619.9	4610.8	4597.2	4547.2	4397.3	4374.6	4274.7	4247.4	4156.5
5°	5292.2	5196.8	5251.3	5169.6	5092.3	5046.9	4801.6	4688.0	4529.0	4470.0	4342.8
7.5°	5646.5	5601.1	5582.9	5587.5	5514.8	5401.2	5292.2	5042.4	4828.9	4783.4	4515.4
10°	5819.2	5791.9	5819.2	5805.5	5837.3	5851.0	5660.2	5510.3	5196.8	5119.6	4701.7
12.5°	5860.0	5914.6	5937.3	5996.3	6073.5	6205.3	6191.7	5987.2	5569.3	5519.3	4987.9
15°	5960.0	6005.4	5982.7	6078.1	6223.5	6446.0	6564.2	6532.4	6082.6	5991.8	5319.5
17.5°	6050.8	5969.1	6046.3	6237.1	6382.5	6723.2	7009.3	7141.1	6641.4	6536.9	5623.8
20°	6173.5	6150.8	6137.1	6232.5	6491.5	6945.7	7513.6	7754.3	7268.3	7159.2	6059.9
22.5°	6546.0	6550.5	6541.4	6400.6	6586.9	7100.2	7954.2	8549.3	8017.8	7927.0	6555.1
25°	7036.6	6977.5	6932.1	6818.5	6795.8	7241.0	8399.4	9521.4	8917.3	8853.7	7091.1
27.5°	7554.5	7554.5	7418.2	7313.7	7168.3	7590.8	8808.2	10466.3	10003.0	9916.6	7559.0
30°	8117.8	8149.5	8131.4	7908.8	7817.9	7972.4	9226.2	11674.7	11247.7	11138.6	8331.3
32.5°	8949.1	8880.9	8958.1	8771.9	8503.9	8640.2	9884.8	12755.8	12864.8	12710.4	9344.3
35°	10048.4	10007.5	9957.5	9653.2	9335.2	9444.2	10816.1	14086.8	14895.4	14818.2	10366.4
37.5°	11034.1	11011.4	10970.5	10761.6	10393.6	10525.4	11874.5	15472.3	16876.0	16621.6	11810.9
40°	12069.9	12192.5	12060.8	11874.5	11538.4	11829.1	13119.2	16294.6	18543.2	18234.3	12914.8
42.5°	13473.6	13378.2	13437.2	13096.5	12914.8	13232.8	14368.5	17116.8	19837.8	19469.9	14086.8
45°	14968.1	14972.6	14813.6	14704.6	14232.2	14577.4	15136.2	17571.0	20869.0	20582.8	14972.6
47.5°	15926.6	15922.1	16094.7	16267.3	15781.2	15440.5	15658.6	18002.6	21400.5	21268.8	15295.2
50°	15776.7	15822.1	16044.7	16689.8	16944.2	16485.3	16149.2	17875.4	21641.3	21627.7	15572.3
52.5°	13723.4	13873.3	14245.8	15177.1	16458.1	17025.9	16662.5	18111.6	21759.4	21782.1	15985.7
55°	10448.1	10529.9	11238.6	12369.7	13787.0	15731.3	16458.1	18297.9	21850.2	21891.1	16485.3
56°	9062.6	8844.6	9866.7	10670.7	12365.1	14491.1	15940.2	18152.5	21795.7	22109.2	16735.2
57.5°	6841.3	6695.9	7522.7	8526.6	10157.4	12401.5	14332.1	17466.6	21427.8	21423.2	16376.3
60°	4161.1	4015.7	4651.7	5242.2	6155.3	7636.2	9685.0	13909.7	18116.2	18497.8	13260.1
62.5°	2475.8	2566.6	3193.5	3552.4	3847.6	4002.1	5010.6	8267.7	12088.0	12360.6	8226.8
65°	1649.0	1680.8	2153.2	2743.8	2875.5	2289.5	2039.7	3347.9	5242.2	5074.2	3393.4
67.5°	1017.6	1090.2	1444.6	2062.4	2285.0	1671.7	967.6	1249.2	1444.6	1444.6	981.2
70°	617.8	654.1	963.0	1403.7	1567.2	1076.6	704.1	704.1	695.0	681.4	586.0
72.5°	295.3	318.0	490.6	722.3	735.9	567.8	545.1	595.1	581.5	576.9	486.1
75°	127.2	136.3	172.6	227.1	258.9	240.8	331.6	427.0	440.6	427.0	349.8
77.5°	40.9	45.4	63.6	81.8	86.3	104.5	140.8	177.2	204.4	190.8	172.6
80°	4.5	9.1	18.2	40.9	63.6	81.8	104.5	118.1	131.7	131.7	122.7
82.5°	4.5	4.5	18.2	36.3	59.1	77.2	99.9	113.6	131.7	136.3	127.2
85°	0.0	4.5	13.6	31.8	50.0	50.0	45.4	45.4	31.8	31.8	31.8
87.5°	0.0	0.0	4.5	4.5	4.5	9.1	9.1	9.1	9.1	9.1	9.1
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°	4102.0	4102.0	4102.0	4102.0	4102.0	4102.0	4102.0	4102.0	4102.0	4102.0	4102.0
2.5°	4138.4	4129.3	4006.6	3929.4	3888.5	3806.8	3756.8	3720.4	3693.2	3661.4	3665.9
5°	4192.9	4161.1	3956.7	3815.8	3647.8	3556.9	3479.7	3416.1	3375.2	3366.1	3347.9
7.5°	4347.3	4179.3	3870.4	3616.0	3402.5	3311.6	3243.5	3202.6	3220.8	3179.9	3211.7
10°	4465.4	4215.6	3765.9	3397.9	3184.4	3116.3	3079.9	3111.7	3157.2	3139.0	3116.3
12.5°	4610.8	4251.9	3597.8	3189.0	2989.1	2939.1	3002.7	3061.8	3152.6	3189.0	3143.5
15°	4774.3	4292.8	3384.3	2948.2	2821.0	2861.9	2970.9	3075.4	3166.2	3211.7	3238.9
17.5°	4974.2	4279.2	3175.3	2757.4	2662.0	2780.1	2911.9	3007.2	3143.5	3211.7	3193.5
20°	5160.5	4233.8	2943.7	2566.6	2571.2	2680.2	2789.2	2943.7	3016.3	3107.2	3075.4
22.5°	5337.6	4152.0	2702.9	2434.9	2434.9	2602.9	2657.5	2757.4	2821.0	2866.4	2861.9
25°	5587.5	3997.5	2503.0	2307.7	2362.2	2471.2	2516.6	2548.4	2521.2	2557.5	2562.1
27.5°	5764.6	3838.6	2339.5	2194.1	2294.0	2375.8	2362.2	2344.0	2280.4	2230.5	2262.2
30°	5955.4	3652.3	2198.7	2116.9	2171.4	2244.1	2189.6	2135.1	2035.1	1953.3	1957.9
32.5°	6228.0	3566.0	2076.0	2026.0	2098.7	2107.8	2048.7	1967.0	1867.0	1789.8	1785.3
35°	6736.8	3511.5	1971.5	1967.0	1980.6	1985.1	1926.1	1826.2	1785.3	1721.7	1744.4
37.5°	7245.6	3484.2	1898.8	1880.7	1876.1	1880.7	1812.5	1717.1	1794.4	1789.8	1798.9
40°	7895.2	3606.9	1794.4	1771.6	1776.2	1776.2	1689.9	1662.6	1798.9	1812.5	1817.1
42.5°	8553.8	3761.3	1726.2	1653.5	1671.7	1671.7	1626.3	1594.5	1689.9	1599.0	1585.4
45°	9126.2	3988.5	1653.5	1535.4	1580.8	1603.6	1589.9	1535.4	1476.4	1321.9	1321.9
47.5°	9312.5	4188.3	1567.2	1421.9	1458.2	1558.1	1517.3	1403.7	1299.2	1172.0	1162.9
50°	9639.5	4406.4	1499.1	1290.1	1367.3	1490.0	1449.1	1335.5	1217.4	1126.6	1131.1
52.5°	9975.7	4656.2	1371.9	1135.7	1231.1	1435.5	1435.5	1308.3	1126.6	1063.0	1053.9
55°	10479.9	4647.2	1144.8	931.2	1099.3	1353.7	1376.4	1172.0	1008.5	958.5	958.5
56°	10552.6	4438.2	1031.2	872.2	1040.3	1331.0	1335.5	1135.7	963.0	908.5	908.5
57.5°	10007.5	4006.6	904.0	799.5	967.6	1290.1	1294.7	1103.9	926.7	849.5	840.4
60°	7699.8	2712.0	754.1	713.2	876.7	1162.9	1185.6	1003.9	813.1	754.1	749.5
62.5°	4347.3	1503.6	663.2	645.1	754.1	990.3	1058.4	876.7	690.5	658.7	667.8
65°	1985.1	826.8	558.7	522.4	608.7	763.2	854.0	722.3	567.8	531.5	531.5
67.5°	726.8	563.3	477.0	413.4	427.0	495.2	554.2	467.9	377.0	322.5	336.2
70°	517.9	472.4	417.9	358.9	331.6	322.5	318.0	263.5	186.2	145.4	154.5
72.5°	417.9	390.7	349.8	304.4	258.9	218.0	186.2	136.3	86.3	59.1	54.5
75°	299.8	286.2	254.4	218.0	181.7	154.5	127.2	86.3	45.4	22.7	22.7
77.5°	154.5	154.5	149.9	136.3	113.6	90.9	72.7	50.0	27.3	9.1	9.1
80°	118.1	127.2	131.7	118.1	104.5	81.8	59.1	36.3	18.2	4.5	4.5
82.5°	113.6	131.7	140.8	122.7	104.5	77.2	59.1	36.3	18.2	4.5	4.5
85°	27.3	27.3	40.9	45.4	59.1	63.6	50.0	31.8	13.6	4.5	4.5
87.5°	9.1	9.1	9.1	9.1	9.1	9.1	4.5	4.5	4.5	4.5	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)