

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: P530651

Luminaire Tested: **GALN-SA5D-827-U-SL3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P530651
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-SA5D-827-U-SL3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 2700K, 1200mA 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: 16654 lumens
Efficiency: N/A
Efficacy: 53.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

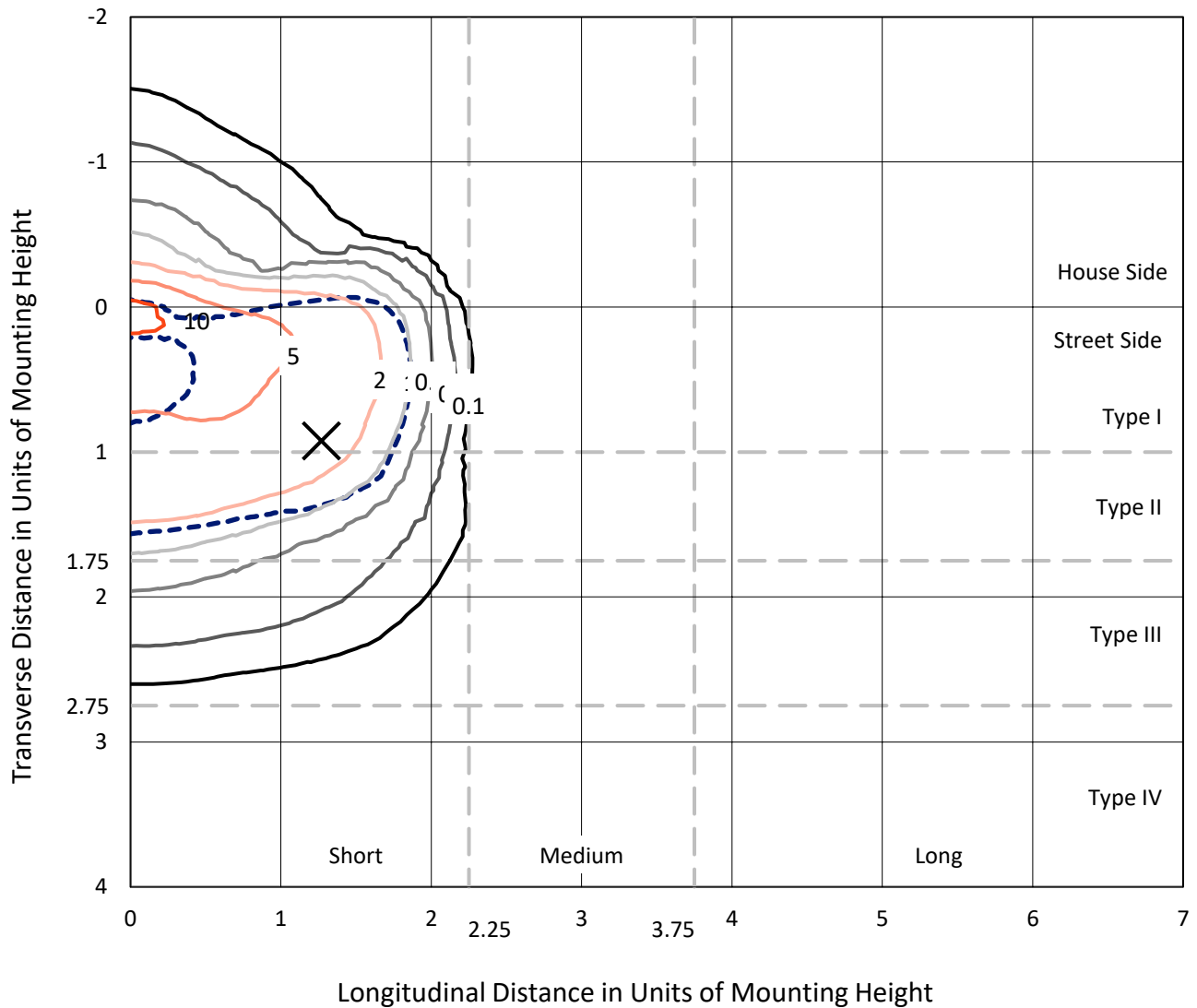
Input Watts (W): 309
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

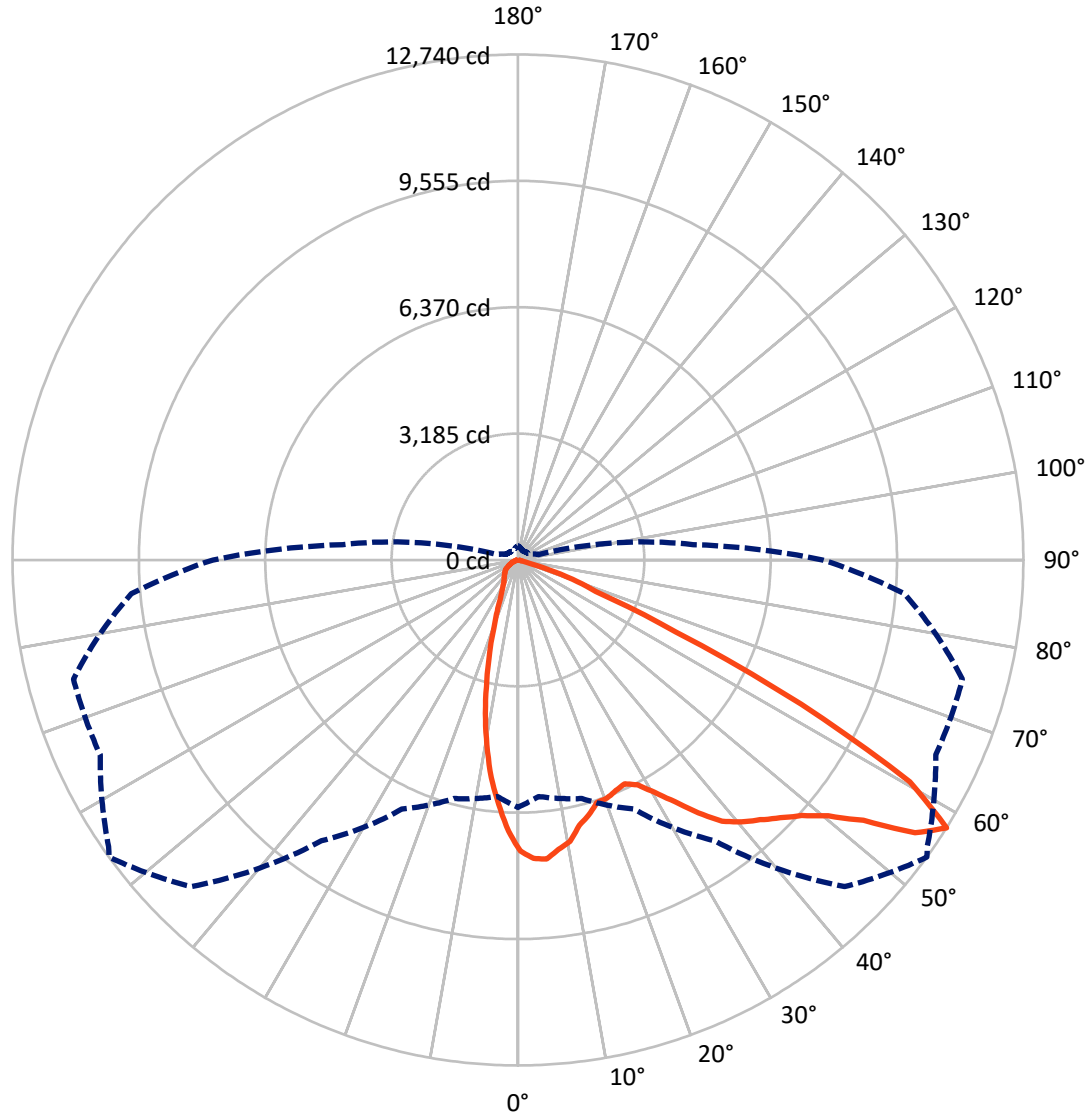
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.7 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	2353.5	0.0	2353.5
	% Fixture	14.1	0.0	14.1
Street Side	Lumens	14300.5	0.0	14300.5
	% Fixture	85.9	0.0	85.9
Total	Lumens	16654.0	0.0	16654.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	613.9	3.7
10°-20°	1310.7	7.9
20°-30°	1736.9	10.4
30°-40°	2524.3	15.2
40°-50°	3743.1	22.5
50°-60°	4680.6	28.1
60°-70°	1846.3	11.1
70°-80°	183.8	1.1
80°-90°	14.3	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°	16654.0	100.0
0°-180°	16654.0	100.0

Coefficient of Utilization



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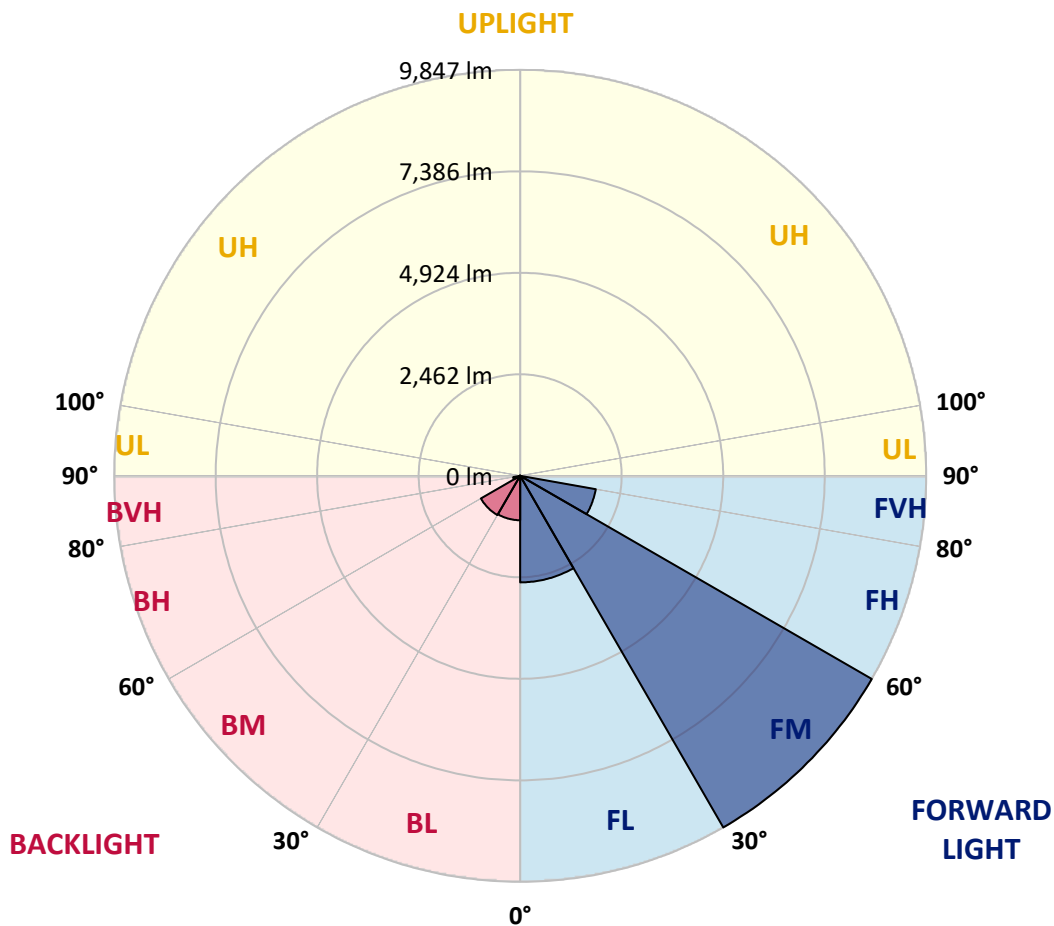
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2585.2	15.5			
FM (30°-60°)	9847.5	59.1			
FH (60°-80°)	1861.4	11.2			G2/5000
FVH (80°-90°)	6.5	0.0			G0/10
BL (0°-30°)	1076.4	6.5	B3/2500		
BM (30°-60°)	1100.6	6.6	B2/2500		
BH (60°-80°)	168.8	1.0	B1/500		G1/500
BVH (80°-90°)	7.8	0.0			G0/10
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°	54°	55°	65°	75°	85°
0°	7336.3	7336.3	7336.3	7336.3	7336.3	7336.3	7336.3	7336.3	7336.3	7336.3	7336.3
2.5°	7763.7	7683.2	7689.3	7661.5	7624.3	7652.2	7531.4	7559.3	7556.2	7392.1	7283.7
5°	7568.6	7655.3	7565.5	7639.8	7568.6	7646.0	7571.7	7515.9	7426.1	7305.3	7104.1
7.5°	7237.2	7153.6	7178.4	7271.3	7286.8	7460.2	7367.3	7438.5	7401.3	7162.9	6887.3
10°	6571.4	6552.8	6676.7	6800.6	6952.3	7138.1	7209.3	7169.1	7141.2	7051.4	6682.9
12.5°	6060.4	6113.1	6110.0	6314.4	6571.4	6676.7	6862.5	6856.3	7011.1	6843.9	6490.9
15°	5574.2	5602.1	5732.2	5859.1	6144.0	6444.4	6673.6	6704.6	6890.4	6772.7	6342.2
17.5°	5276.9	5236.7	5338.9	5490.6	5781.7	6175.0	6428.9	6503.3	6757.2	6732.4	6171.9
20°	4982.7	4982.7	5066.4	5246.0	5512.3	5955.1	6407.3	6385.6	6757.2	6686.0	5989.2
22.5°	4883.6	4933.2	4954.9	5091.1	5407.0	5787.9	6314.4	6354.6	6809.9	6664.3	5908.7
25°	5019.9	4954.9	4961.1	5069.5	5366.7	5707.4	6246.2	6336.0	6905.9	6772.7	5843.7
27.5°	5041.6	5106.6	5125.2	5199.5	5397.7	5732.2	6416.6	6599.3	7144.3	7026.6	5862.2
30°	5230.5	5295.5	5292.4	5419.4	5555.7	5933.5	6797.5	6834.6	7636.7	7345.6	5976.8
32.5°	5459.7	5527.8	5549.5	5698.1	5806.5	6302.0	7262.0	7358.0	8110.5	7847.3	6277.2
35°	5744.6	5719.8	5818.9	5967.5	6199.8	6840.8	7828.7	7989.7	8621.5	8497.6	6586.9
37.5°	6100.7	6069.7	6165.7	6407.3	6723.1	7478.8	8352.1	8457.4	8993.1	9101.5	7159.8
40°	6351.5	6363.9	6655.0	6980.2	7314.6	8085.7	8683.4	8785.6	9253.2	9665.1	7593.3
42.5°	6769.6	6847.0	7197.0	7593.3	7943.3	8541.0	8952.8	9051.9	9374.0	10117.2	8178.6
45°	7376.6	7342.5	7729.6	8172.4	8559.5	9014.8	9271.8	9237.7	9445.2	10566.3	8547.2
47.5°	8157.0	8163.2	8420.2	8798.0	9200.6	9426.6	9627.9	9507.2	9593.9	11040.1	9039.5
50°	8689.6	8736.1	8943.5	9330.6	9531.9	9878.8	10135.8	10061.5	10033.6	11325.0	9349.2
52.5°	8825.9	8965.2	9076.7	9559.8	10030.5	10578.7	10906.9	11064.9	10569.4	11421.0	9742.5
55°	7797.7	7921.6	8314.9	8977.6	10219.4	11687.3	12139.4	12142.5	11269.2	11848.3	10018.1
57.5°	6233.9	5983.0	6224.6	6927.5	8640.1	11640.9	12740.2	12594.7	11619.2	11597.5	9779.7
60°	4310.7	4248.8	4264.3	4543.0	5979.9	9259.4	11352.9	11541.8	10699.4	10052.2	7742.0
62.5°	3415.8	3363.1	3295.0	3264.0	3713.1	5769.3	8008.3	8274.6	7481.9	6518.8	4589.5
65°	2675.6	2644.7	2654.0	2777.8	2774.7	3273.3	4378.9	4270.5	3418.9	2527.0	1443.1
67.5°	1805.4	1851.9	1889.0	2263.8	2455.8	2279.2	2115.1	2053.2	1111.7	467.6	319.0
70°	1015.7	1021.9	1062.2	1415.2	1864.3	1768.3	1458.6	1458.6	554.3	170.3	182.7
72.5°	554.3	535.7	498.6	610.1	829.9	842.3	650.3	566.7	164.1	111.5	102.2
75°	269.4	266.3	229.2	188.9	179.6	148.6	114.6	105.3	74.3	71.2	61.9
77.5°	55.7	52.6	27.9	27.9	31.0	34.1	43.4	43.4	52.6	52.6	43.4
80°	0.0	0.0	3.1	12.4	21.7	31.0	37.2	37.2	43.4	43.4	34.1
82.5°	0.0	0.0	3.1	9.3	18.6	27.9	34.1	37.2	43.4	46.5	37.2
85°	0.0	0.0	0.0	6.2	15.5	21.7	18.6	18.6	15.5	12.4	6.2
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°	7336.3	7336.3	7336.3	7336.3	7336.3	7336.3	7336.3	7336.3	7336.3	7336.3	7336.3
2.5°	7227.9	7221.7	7079.3	6998.8	6853.2	6726.2	6624.0	6549.7	6549.7	6503.3	6459.9
5°	7023.5	6970.9	6667.4	6472.3	6196.7	5992.3	5852.9	5744.6	5574.2	5620.7	5438.0
7.5°	6769.6	6636.4	6233.9	5936.6	5555.7	5264.6	4967.3	4704.0	4450.1	4335.5	4397.5
10°	6497.1	6264.8	5722.9	5252.2	4778.4	4245.7	3898.9	3477.7	3217.6	3202.1	3134.0
12.5°	6209.1	5945.8	5286.2	4635.9	4013.4	3372.4	2842.9	2449.6	2273.0	2078.0	2115.1
15°	5992.3	5602.1	4800.0	4016.5	3189.7	2542.5	2009.8	1706.3	1539.1	1492.7	1477.2
17.5°	5756.9	5338.9	4304.5	3356.9	2502.2	1830.2	1446.2	1300.7	1235.6	1235.6	1226.3
20°	5512.3	5041.6	3812.2	2743.8	1876.7	1365.7	1158.2	1111.7	1108.7	1105.6	1105.6
22.5°	5351.3	4700.9	3366.2	2180.1	1415.2	1093.2	1006.5	987.9	1000.3	1037.4	1037.4
25°	5180.9	4372.7	2873.8	1681.6	1096.3	938.3	888.8	901.2	932.1	966.2	953.8
27.5°	5007.5	4159.0	2409.3	1319.2	898.1	820.7	802.1	829.9	864.0	895.0	885.7
30°	4967.3	3929.8	1969.6	1000.3	771.1	715.4	727.7	752.5	786.6	799.0	811.4
32.5°	5029.2	3750.2	1613.4	820.7	672.0	656.5	656.5	668.9	690.6	718.5	709.2
35°	5205.7	3648.0	1275.9	712.3	616.3	600.8	597.7	610.1	622.5	631.7	622.5
37.5°	5475.1	3567.5	1043.6	631.7	579.1	554.3	548.1	545.0	557.4	560.5	566.7
40°	5818.9	3610.9	885.7	582.2	541.9	514.1	495.5	495.5	495.5	504.8	507.9
42.5°	6190.5	3669.7	764.9	554.3	507.9	473.8	455.2	449.0	455.2	467.6	464.5
45°	6580.7	3784.3	687.5	511.0	476.9	433.6	408.8	402.6	418.1	442.8	439.7
47.5°	6946.1	3948.4	628.6	483.1	445.9	405.7	374.7	368.5	396.4	430.5	433.6
50°	7311.5	4233.3	607.0	461.4	424.3	377.8	349.9	343.7	374.7	418.1	427.4
52.5°	7732.7	4539.9	591.5	433.6	399.5	356.1	325.2	319.0	353.0	408.8	411.9
55°	8008.3	4800.0	579.1	384.0	353.0	322.1	297.3	294.2	331.4	380.9	393.3
57.5°	7686.2	4437.7	535.7	334.5	300.4	284.9	263.2	263.2	294.2	340.6	349.9
60°	5828.2	2920.3	380.9	269.4	253.9	244.6	235.4	235.4	260.1	294.2	297.3
62.5°	3412.7	1573.2	244.6	216.8	216.8	207.5	192.0	192.0	216.8	235.4	238.5
65°	1012.7	504.8	198.2	185.8	182.7	167.2	151.7	148.6	167.2	176.5	173.4
67.5°	291.1	232.3	164.1	154.8	151.7	127.0	117.7	114.6	117.7	111.5	108.4
70°	173.4	157.9	127.0	130.1	114.6	92.9	83.6	80.5	74.3	65.0	58.8
72.5°	96.0	96.0	92.9	99.1	80.5	61.9	52.6	43.4	34.1	27.9	24.8
75°	58.8	61.9	65.0	68.1	52.6	40.3	34.1	21.7	12.4	6.2	6.2
77.5°	40.3	43.4	46.5	49.5	43.4	37.2	27.9	15.5	3.1	0.0	0.0
80°	31.0	34.1	40.3	43.4	46.5	49.5	37.2	15.5	3.1	0.0	0.0
82.5°	34.1	37.2	46.5	43.4	43.4	43.4	34.1	15.5	3.1	0.0	0.0
85°	6.2	9.3	15.5	15.5	21.7	27.9	21.7	6.2	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)