

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: P534289

Luminaire Tested: **GALN-SA9D-735-U-SL2-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P534289
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-SA9D-735-U-SL2-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3500K, 1200mA 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: 38132 lumens
Efficiency: N/A
Efficacy: 69.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G2

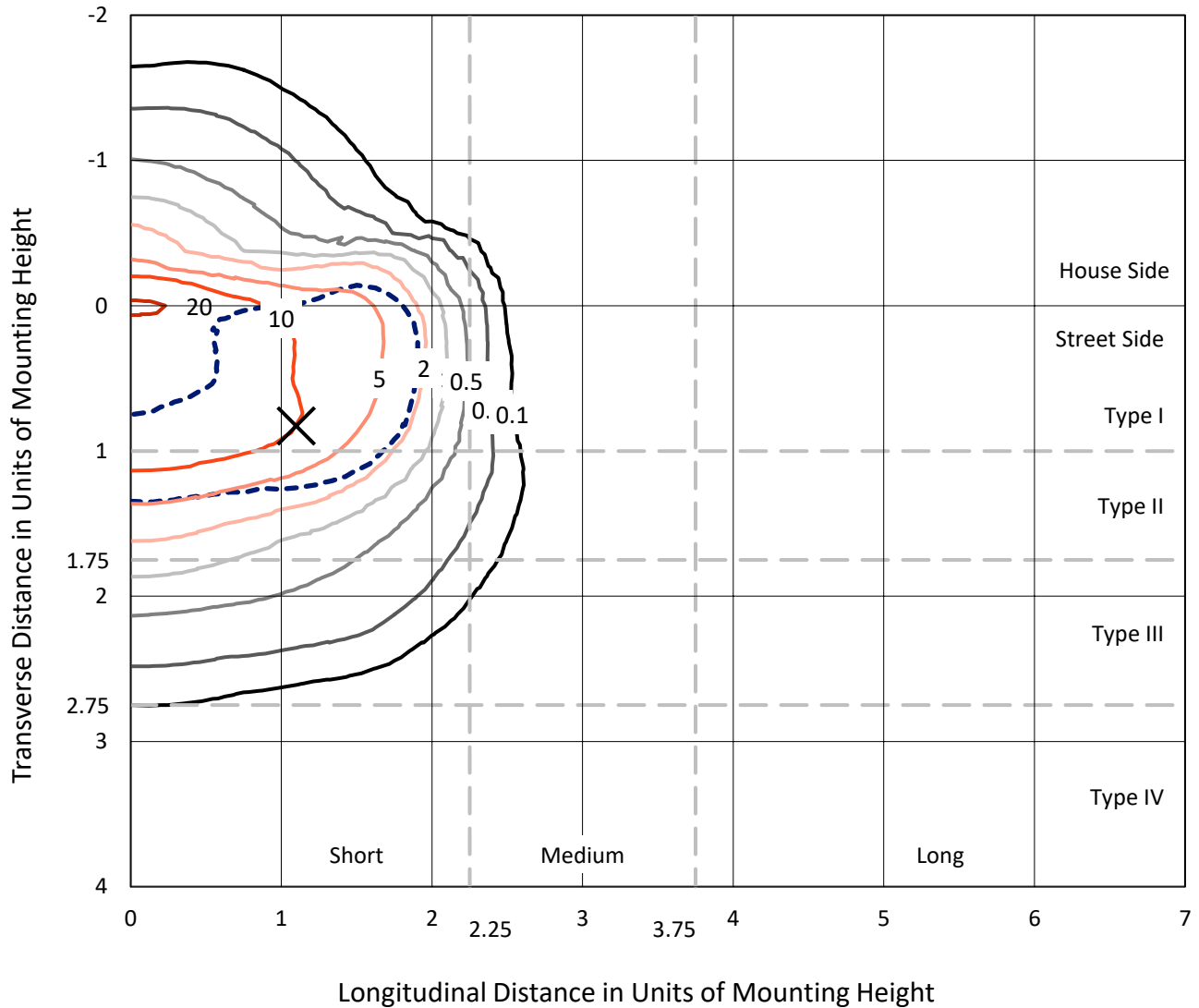
Input Watts (W): 552
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

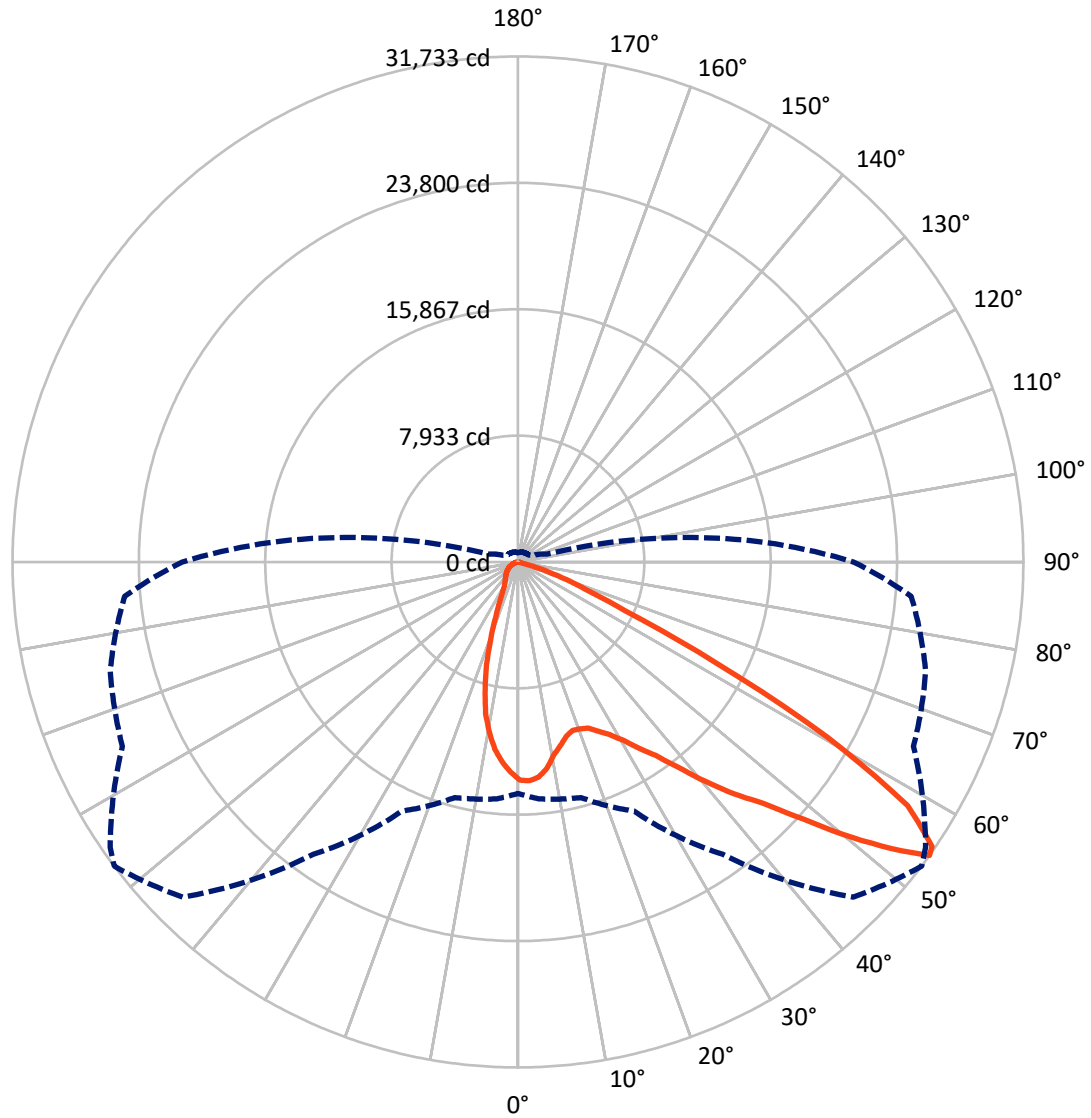
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 21.9 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	6309.0	0.0	6309.0
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	31823.0	0.0	31823.0
	% Fixture	83.5	0.0	83.5
Total	Lumens	38132.0	0.0	38132.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1175.1	3.1
10°-20°	2694.2	7.1
20°-30°	3829.0	10.0
30°-40°	5909.2	15.5
40°-50°	9265.0	24.3
50°-60°	10762.6	28.2
60°-70°	4066.8	10.7
70°-80°	386.7	1.0
80°-90°	43.5	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°	38132.0	100.0
0°-180°	38132.0	100.0

Coefficient of Utilization



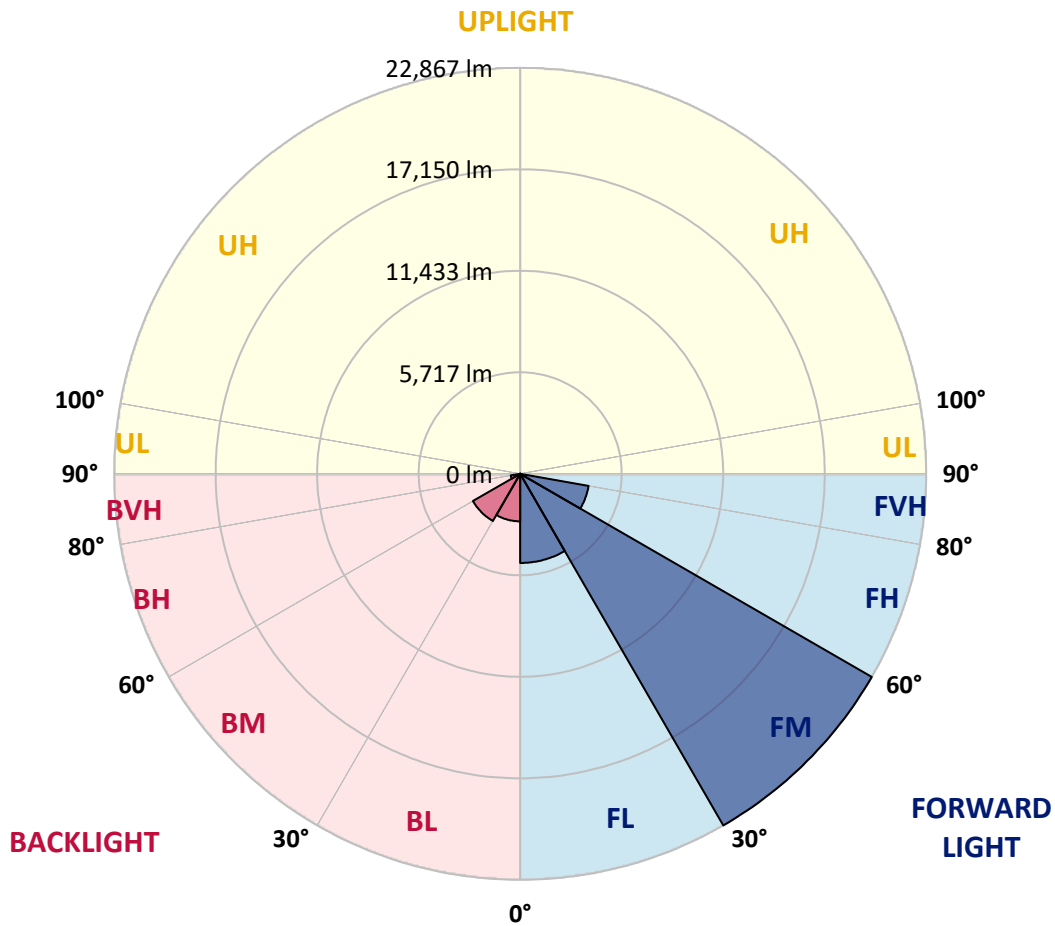
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5021.0	13.2			
FM (30°-60°)	22866.6	60.0			
FH (60°-80°)	3912.9	10.3			G2/5000
FVH (80°-90°)	22.5	0.1			G1/100
BL (0°-30°)	2677.3	7.0	B4/5000		
BM (30°-60°)	3070.2	8.1	B3/5000		
BH (60°-80°)	540.6	1.4	B2/1000		G2/1000
BVH (80°-90°)	21.0	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	13696.4	13696.4	13696.4	13696.4	13696.4	13696.4	13696.4	13696.4	13696.4	13696.4	13696.4
2.5°	13625.3	13504.6	13625.3	13639.5	13724.8	13802.9	13753.2	13866.9	13802.9	13731.9	13710.6
5°	12524.2	12687.6	12694.7	12950.5	12893.6	13362.5	13568.5	13511.7	13859.8	13838.5	13788.7
7.5°	11536.8	11472.8	11558.1	11856.5	12233.0	12772.9	13071.2	13064.1	13561.4	13916.6	13881.1
10°	10620.4	10613.3	10790.9	11025.3	11345.0	11913.3	12325.3	12531.3	13305.7	13845.6	13923.7
12.5°	10002.3	9973.9	10165.7	10357.5	10861.9	11302.3	11828.0	11927.5	12815.5	13596.9	13724.8
15°	9597.4	9661.3	9675.5	10045.0	10364.6	10947.2	11359.2	11565.2	12588.2	13398.0	13888.2
17.5°	9526.4	9611.6	9618.7	9924.2	10265.2	10755.3	11117.6	11394.7	12396.4	13497.5	13895.3
20°	9668.4	9618.7	9661.3	9853.1	10187.0	10655.9	11181.6	11273.9	12332.4	13547.2	13973.4
22.5°	10073.4	10059.2	9952.6	10108.9	10343.3	10833.5	11330.8	11472.8	12517.1	13802.9	14037.4
25°	10520.9	10599.1	10499.6	10478.3	10641.7	11124.7	11785.4	11970.1	13135.2	14264.7	14236.3
27.5°	11359.2	11281.0	11281.0	11181.6	11139.0	11373.4	12275.6	12581.1	13824.2	14861.4	14463.6
30°	12161.9	12247.2	12183.2	12218.8	11934.6	11913.3	12971.8	13348.3	15046.1	15770.7	14946.7
32.5°	13433.5	13319.9	13426.4	13334.1	12957.6	12574.0	13916.6	14307.3	16523.7	16815.0	15671.3
35°	14492.0	14442.3	14896.9	14882.7	14271.8	13895.3	14918.2	15500.8	17553.8	18065.3	16523.7
37.5°	15998.0	15905.7	16424.3	16672.9	16125.9	15564.7	16353.2	17028.1	18512.8	19066.9	17397.5
40°	17546.7	17781.1	18477.3	18889.3	18306.8	17560.9	18107.9	18313.9	19152.2	19720.5	17994.2
42.5°	19507.4	19848.4	20558.8	20914.0	20864.2	20054.4	19891.0	19883.9	19613.9	19535.8	18434.7
45°	21389.9	21262.1	22356.1	23130.4	23755.5	23521.1	21610.1	21397.0	20345.6	19812.9	18548.4
47.5°	22214.0	22171.4	22917.3	24295.4	26426.6	26717.9	24110.7	23286.7	21581.7	20977.9	19166.4
50°	21148.4	21368.6	22107.4	23634.8	26902.6	29126.1	27179.6	26071.4	23023.8	22398.7	20629.8
52.5°	17667.5	17816.6	18519.9	20459.3	25282.9	30546.9	30120.7	29481.3	25673.6	24636.4	23180.1
54°	14527.5	14925.4	15309.0	17255.4	22398.7	29758.4	31733.2	31243.1	27399.8	26497.6	24785.6
55°	12652.1	12886.5	13163.6	15102.9	20402.5	28422.8	31548.5	31591.2	28557.8	27080.2	25865.4
57.5°	9242.2	9405.6	9121.4	9981.0	14008.9	23080.7	28856.2	30007.0	30120.7	27954.0	26526.1
60°	7061.3	7132.3	6812.7	6947.6	8709.4	15841.8	22320.5	23705.8	27172.5	24430.4	22469.7
62.5°	5477.1	5491.3	5484.2	5718.7	6002.8	9320.4	13959.2	15188.2	18733.1	17347.8	15259.2
65°	4035.0	3971.1	4084.8	4795.2	5121.9	5860.7	7352.6	8247.7	10179.9	8595.8	6144.9
67.5°	2614.2	2635.6	2749.2	3566.2	4390.2	4496.8	4525.2	4454.2	4461.3	2458.0	1541.6
70°	1570.0	1605.5	1570.0	2017.5	3139.9	3225.2	2948.1	2877.1	2244.8	582.5	575.4
72.5°	930.6	880.9	788.5	866.7	1307.1	1562.9	1406.6	1399.5	880.9	341.0	341.0
75°	390.7	355.2	291.3	262.8	348.1	333.9	333.9	298.4	234.4	227.3	213.1
77.5°	78.1	78.1	56.8	63.9	85.2	99.5	120.8	120.8	142.1	142.1	135.0
80°	0.0	7.1	21.3	42.6	63.9	92.4	106.6	106.6	120.8	120.8	99.5
82.5°	0.0	7.1	21.3	42.6	56.8	85.2	106.6	106.6	120.8	127.9	106.6
85°	0.0	7.1	21.3	35.5	56.8	71.0	71.0	63.9	49.7	42.6	28.4
87.5°	0.0	0.0	7.1	14.2	7.1	14.2	14.2	14.2	14.2	14.2	14.2
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°	13696.4	13696.4	13696.4	13696.4	13696.4	13696.4	13696.4	13696.4	13696.4	13696.4	13696.4
2.5°	13760.3	13753.2	13582.7	13305.7	13241.7	13007.3	12978.9	12836.8	12914.9	12652.1	12623.7
5°	13646.6	13561.4	13355.4	13177.8	12659.2	12289.8	11998.5	11643.3	11437.3	11472.8	11337.9
7.5°	13810.0	13589.8	13227.5	12609.5	11977.2	11330.8	10982.7	10258.1	9995.2	9604.5	9547.7
10°	13639.5	13476.1	12914.9	11892.0	11018.2	10087.6	9270.6	8467.9	7856.9	7594.1	7537.3
12.5°	13625.3	13341.2	12403.5	11266.8	10002.3	8666.8	7480.4	6478.8	5874.9	5534.0	5455.8
15°	13405.1	13064.1	11828.0	10300.7	8553.1	6890.8	5597.9	4631.8	4170.0	3971.1	4027.9
17.5°	13426.4	12914.9	11252.6	9277.7	7125.2	5058.0	3821.9	3324.6	3203.9	3253.6	3253.6
20°	13405.1	12581.1	10556.4	8098.5	5455.8	3509.3	2806.1	2628.5	2706.6	2862.9	2827.4
22.5°	13291.4	12424.8	9917.1	6855.3	4013.7	2600.0	2251.9	2259.0	2379.8	2571.6	2614.2
25°	13376.7	12076.7	9107.2	5597.9	2926.8	2074.3	1953.6	2003.3	2131.2	2273.3	2301.7
27.5°	13312.8	11828.0	8261.9	4347.6	2138.3	1783.1	1776.0	1832.8	1889.6	1996.2	1996.2
30°	13383.8	11600.7	7430.7	3232.3	1761.8	1633.9	1605.5	1648.1	1704.9	1726.3	1719.2
32.5°	13646.6	11430.2	6471.7	2415.3	1555.8	1491.8	1491.8	1491.8	1484.7	1513.1	1520.2
35°	14222.1	11458.6	5626.3	1868.3	1420.8	1371.1	1349.7	1321.3	1307.1	1321.3	1328.4
37.5°	14847.2	11444.4	4752.5	1591.3	1321.3	1278.7	1229.0	1186.4	1179.3	1193.5	1172.1
40°	15124.3	11579.4	3942.7	1427.9	1229.0	1179.3	1101.1	1065.6	1072.7	1086.9	1072.7
42.5°	15500.8	11622.0	3417.0	1300.0	1143.7	1065.6	1015.9	973.2	966.1	987.4	980.3
45°	15493.7	11380.5	2862.9	1229.0	1065.6	980.3	916.4	880.9	880.9	895.1	902.2
47.5°	15948.3	11345.0	2458.0	1165.0	1008.8	923.5	845.4	817.0	809.8	809.8	795.6
50°	17006.8	11842.2	2145.4	1094.0	937.7	859.6	795.6	760.1	731.7	717.5	710.4
52.5°	19074.0	13390.9	1903.9	1008.8	859.6	795.6	738.8	710.4	674.9	639.4	632.2
54°	21077.4	14989.3	1889.6	937.7	795.6	753.0	703.3	689.1	646.5	596.7	582.5
55°	21979.6	15919.9	1939.4	880.9	753.0	724.6	682.0	667.8	625.1	568.3	561.2
57.5°	22725.5	16282.2	1911.0	731.7	682.0	674.9	639.4	618.0	568.3	490.2	476.0
60°	18292.6	12311.1	1371.1	646.5	625.1	610.9	582.5	568.3	504.4	419.1	412.0
62.5°	11558.1	7082.6	873.8	568.3	547.0	525.7	490.2	476.0	419.1	333.9	312.6
65°	4923.0	2933.9	589.6	504.4	468.9	433.3	404.9	383.6	333.9	248.6	241.5
67.5°	1278.7	1044.3	490.2	440.4	390.7	341.0	319.7	284.2	227.3	170.5	163.4
70°	575.4	525.7	412.0	369.4	312.6	262.8	234.4	198.9	149.2	113.7	106.6
72.5°	341.0	333.9	312.6	277.1	234.4	198.9	170.5	135.0	99.5	63.9	63.9
75°	213.1	206.0	213.1	191.8	163.4	149.2	127.9	92.4	56.8	28.4	28.4
77.5°	127.9	127.9	127.9	120.8	113.7	113.7	92.4	56.8	28.4	7.1	7.1
80°	99.5	99.5	106.6	99.5	99.5	99.5	78.1	42.6	14.2	0.0	0.0
82.5°	99.5	106.6	120.8	113.7	99.5	85.2	71.0	42.6	14.2	0.0	0.0
85°	28.4	21.3	35.5	49.7	71.0	63.9	49.7	35.5	14.2	0.0	0.0
87.5°	14.2	14.2	14.2	14.2	7.1	7.1	7.1	7.1	7.1	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)