

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: P528674

Luminaire Tested: **GALN-SA3D-735-U-SL2-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P528674
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-18)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA3D-735-U-SL2-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
SPILL LIGHT ELIMINATOR OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18234 lumens
Efficiency: N/A
Efficacy: 99.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

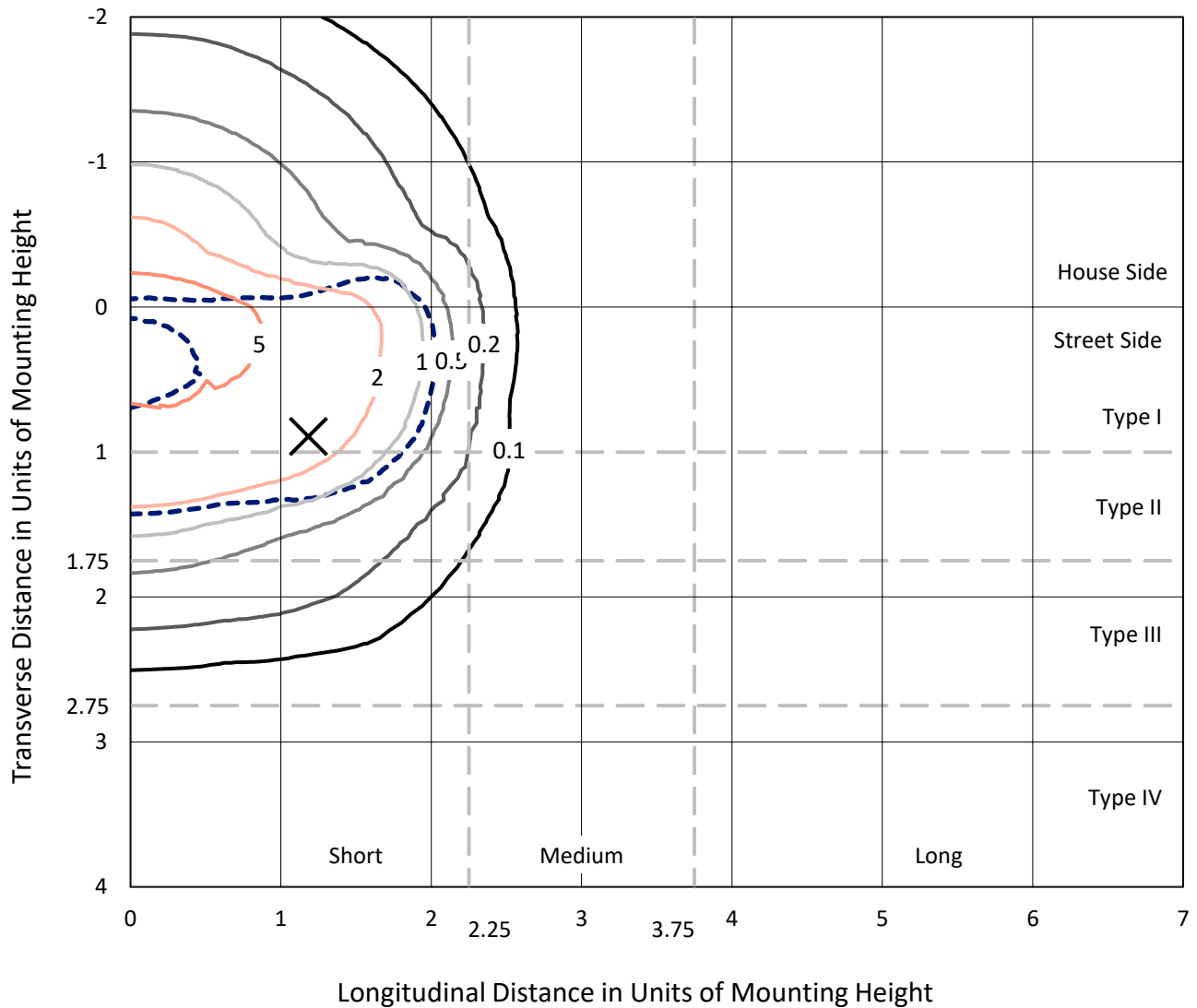
Input Watts (W): 184
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

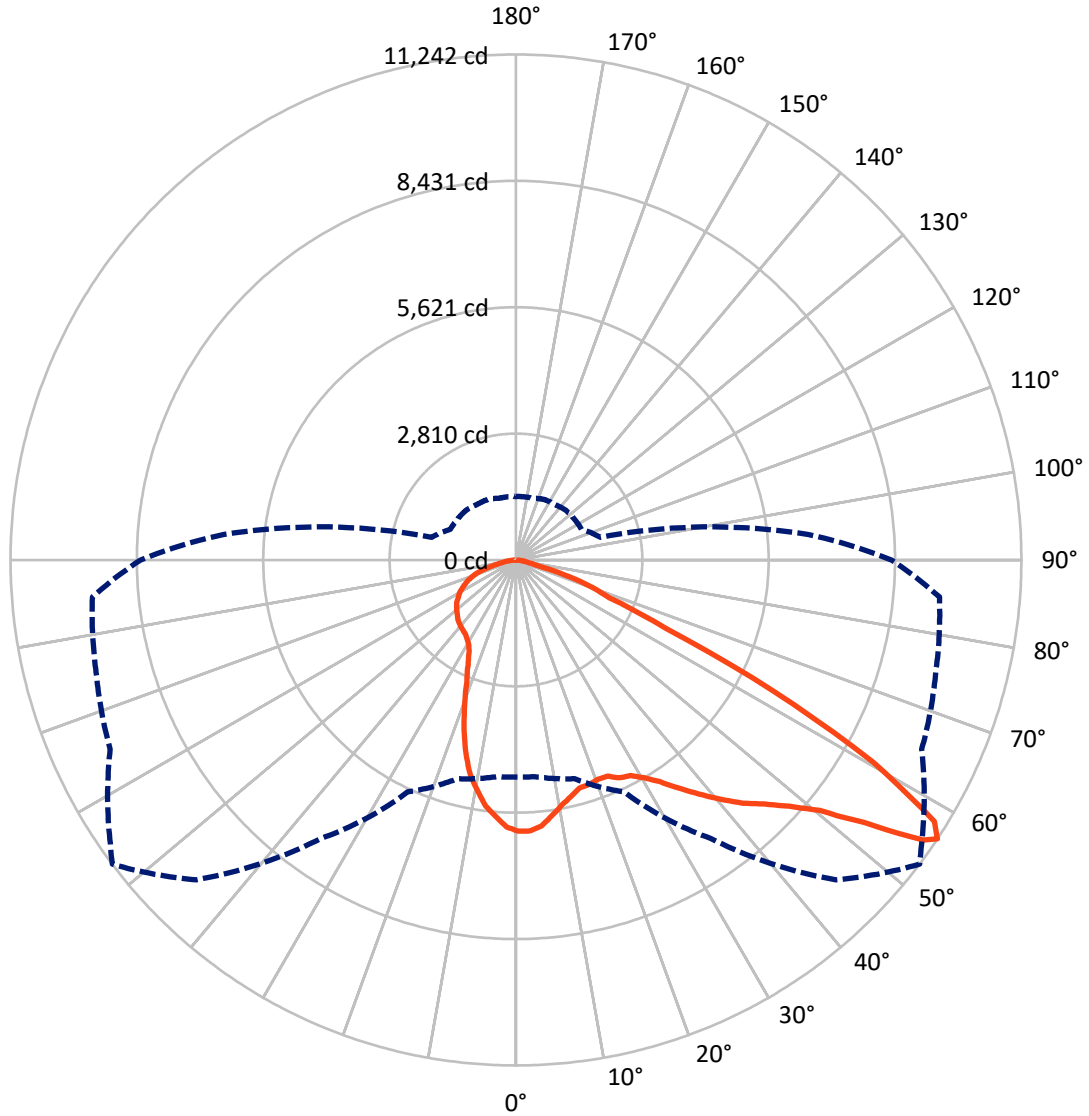
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.7 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5321.1	0.0	5321.1
	% Fixture	29.2	0.0	29.2
Street Side	Lumens	12912.9	0.0	12912.9
	% Fixture	70.8	0.0	70.8
Total	Lumens	18234.0	0.0	18234.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	534.0	2.9
10°-20°	1333.8	7.3
20°-30°	1966.8	10.8
30°-40°	2810.2	15.4
40°-50°	3867.9	21.2
50°-60°	4570.8	25.1
60°-70°	2435.9	13.4
70°-80°	618.0	3.4
80°-90°	96.4	0.5
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°	18234.0	100.0
0°-180°	18234.0	100.0

Coefficient of Utilization



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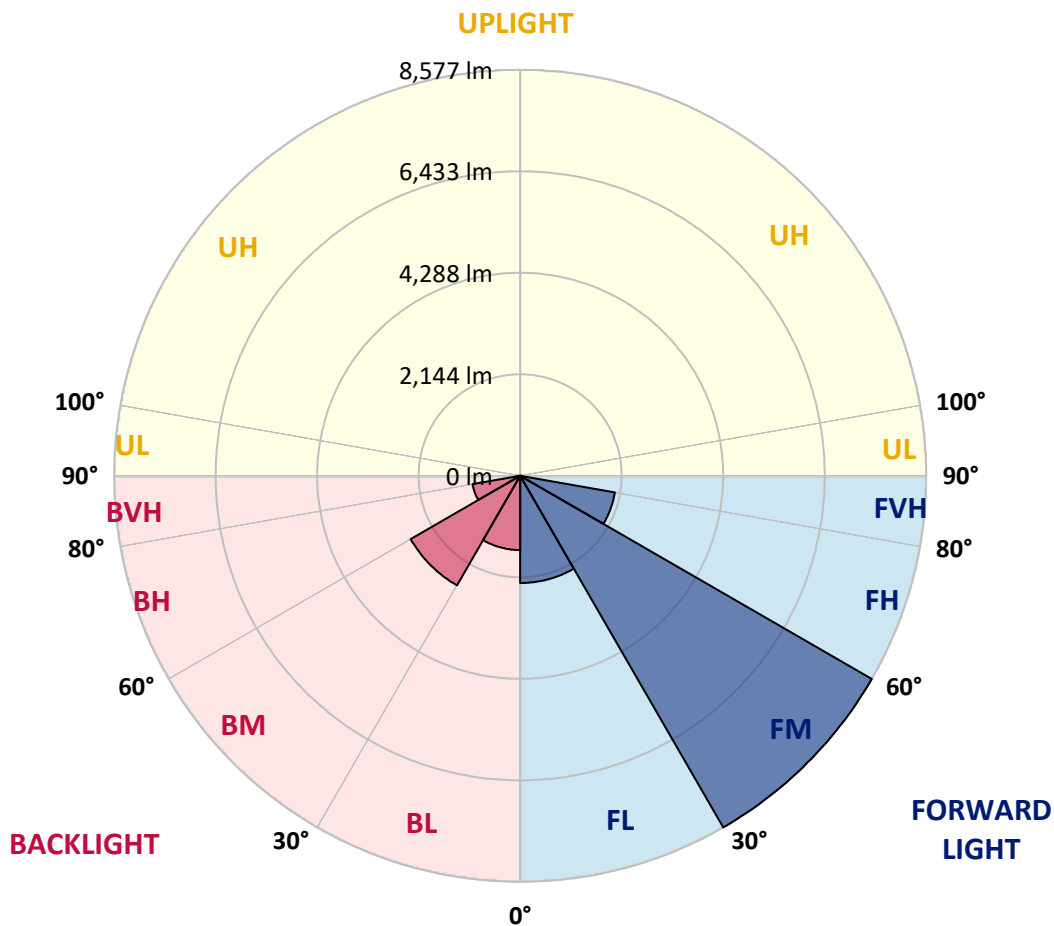
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2265.3	12.4			
FM (30°-60°)	8576.9	47.0			
FH (60°-80°)	2031.9	11.1			G2/5000
FVH (80°-90°)	38.7	0.2			G1/100
BL (0°-30°)	1569.4	8.6	B3/2500		
BM (30°-60°)	2672.1	14.7	B3/5000		
BH (60°-80°)	1022.0	5.6	B3/2500		G3/2500
BVH (80°-90°)	57.6	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	6032.5	6032.5	6032.5	6032.5	6032.5	6032.5	6032.5	6032.5	6032.5	6032.5	6032.5
2.5°	5957.7	5906.2	5936.6	5924.9	6020.8	6048.9	6034.9	6046.6	6100.4	6074.6	6020.8
5°	5567.0	5639.6	5653.6	5688.7	5744.8	5854.8	5941.3	5964.7	5990.4	6109.7	6098.0
7.5°	5211.5	5260.6	5234.9	5337.8	5459.4	5637.2	5742.5	5761.2	5997.4	6062.9	6112.1
10°	4987.0	4937.8	5054.8	5082.9	5220.9	5424.4	5550.7	5627.9	5843.1	6102.7	6133.1
12.5°	4778.8	4762.4	4832.6	4912.1	5066.5	5277.0	5405.6	5436.1	5768.2	6041.9	6184.6
15°	4624.4	4605.7	4675.9	4734.3	4914.4	5101.6	5265.3	5351.8	5686.3	6006.8	6140.1
17.5°	4502.8	4500.4	4540.2	4645.4	4830.2	4987.0	5251.3	5255.9	5644.2	6060.6	6177.5
20°	4495.7	4493.4	4500.4	4617.4	4785.8	4977.6	5206.8	5248.9	5644.2	6023.2	6179.9
22.5°	4554.2	4516.8	4558.9	4633.7	4755.4	4994.0	5223.2	5316.8	5779.9	6208.0	6285.1
25°	4647.8	4657.1	4680.5	4706.3	4776.4	5031.4	5368.2	5445.4	5939.0	6367.0	6430.2
27.5°	4818.5	4813.9	4823.2	4837.2	4898.1	5066.5	5426.7	5625.5	6271.1	6650.0	6586.9
30°	5068.8	5052.4	5089.9	5139.0	5082.9	5178.8	5620.8	5770.5	6579.9	6935.4	6762.3
32.5°	5295.7	5356.5	5426.7	5447.8	5379.9	5398.6	5878.1	6030.2	6837.2	7286.3	6977.5
35°	5578.7	5627.9	5721.4	5786.9	5775.2	5719.1	6229.0	6430.2	7209.1	7543.6	7204.4
37.5°	5854.8	5913.2	6067.6	6261.8	6154.2	6128.4	6603.3	6769.3	7323.7	7681.6	7370.5
40°	6299.2	6296.8	6563.5	6664.1	6760.0	6715.5	6991.6	7047.7	7384.5	7651.2	7375.2
42.5°	6820.8	6788.1	7059.4	7216.1	7340.1	7344.8	7396.2	7377.5	7412.6	7496.8	7326.0
45°	7316.7	7386.9	7660.5	7941.2	8065.2	8079.2	7737.7	7702.6	7461.7	7452.4	7232.5
47.5°	7922.5	7938.9	8163.4	8533.0	8820.7	8722.5	8179.8	8102.6	7676.9	7749.4	7389.2
50°	7957.6	8079.2	8280.4	8715.5	9599.6	9573.9	8752.9	8607.9	8023.1	8170.5	7826.6
52.5°	7223.1	7195.1	7433.6	8144.7	9541.2	10420.7	9702.6	9356.4	8766.9	8654.7	8535.4
55°	5503.9	5569.4	5779.9	6498.0	8285.1	10432.4	10996.1	10713.1	9562.2	9370.4	9232.4
56°	4827.9	4837.2	5036.1	5691.0	7560.0	10060.4	11241.7	11012.5	9957.5	9665.1	9454.6
57.5°	4002.2	3948.4	4051.3	4409.2	6381.1	9274.5	10972.7	11197.2	10420.7	9983.3	9690.9
60°	3150.8	3139.1	3097.0	3162.5	4032.6	6986.9	9134.2	9639.4	10373.9	9683.9	9281.5
62.5°	2573.0	2514.5	2598.7	2692.3	2802.2	4334.3	6418.5	6715.5	8236.0	7730.7	6972.8
65°	1995.2	1967.2	2072.4	2376.5	2442.0	2753.1	3656.0	3885.2	4863.0	4776.4	4205.7
67.5°	1373.0	1377.7	1469.0	1932.1	2264.2	2236.2	2238.5	2357.8	2537.9	1885.3	1642.0
70°	870.1	867.8	916.9	1244.4	1822.2	1840.9	1747.3	1712.2	1623.3	982.4	1040.9
72.5°	559.0	542.7	568.4	687.7	942.7	1090.0	1122.8	1143.8	940.3	771.9	837.4
75°	315.8	299.4	290.0	320.5	371.9	430.4	472.5	486.5	545.0	584.8	619.9
77.5°	95.9	86.5	105.3	140.3	184.8	247.9	301.7	311.1	367.2	414.0	449.1
80°	42.1	46.8	65.5	93.6	131.0	175.4	212.9	226.9	264.3	299.4	308.8
82.5°	25.7	28.1	44.4	63.2	91.2	124.0	152.0	156.7	194.1	222.2	229.2
85°	9.4	11.7	23.4	37.4	58.5	79.5	79.5	86.5	79.5	79.5	86.5
87.5°	0.0	0.0	2.3	4.7	4.7	7.0	9.4	9.4	11.7	14.0	16.4
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°	6032.5	6032.5	6032.5	6032.5	6032.5	6032.5	6032.5	6032.5	6032.5	6032.5	6032.5
2.5°	6048.9	6037.2	6018.5	5950.7	5943.6	5922.6	5805.6	5786.9	5805.6	5749.5	5754.2
5°	6037.2	6072.3	5931.9	5864.1	5737.8	5646.6	5541.3	5487.5	5391.6	5330.8	5398.6
7.5°	6088.7	6074.6	5899.2	5751.8	5562.4	5330.8	5146.0	5040.7	4872.3	4825.6	4860.6
10°	6070.0	5995.1	5789.3	5595.1	5237.2	5033.7	4734.3	4444.3	4285.2	4203.4	4191.7
12.5°	6044.2	6023.2	5679.3	5344.8	4968.2	4540.2	4119.1	3845.5	3585.8	3473.6	3489.9
15°	6074.6	5896.9	5473.5	5050.1	4549.5	3988.2	3534.4	3181.2	3001.1	2928.5	2928.5
17.5°	6060.6	5836.0	5375.2	4720.3	4086.4	3422.1	2923.9	2711.0	2636.2	2636.2	2657.2
20°	6067.6	5875.8	5176.4	4390.5	3539.1	2881.8	2519.2	2442.0	2474.8	2486.5	2498.2
22.5°	6107.4	5744.8	4982.3	4027.9	3031.5	2465.4	2287.6	2290.0	2348.5	2411.6	2399.9
25°	6156.5	5693.4	4746.0	3667.7	2643.2	2261.9	2205.8	2198.7	2243.2	2275.9	2280.6
27.5°	6114.4	5604.5	4505.1	3218.6	2325.1	2126.2	2114.5	2119.2	2133.3	2198.7	2177.7
30°	6252.4	5630.2	4203.4	2842.0	2149.6	2081.8	2067.8	2060.7	2081.8	2100.5	2084.1
32.5°	6423.2	5539.0	3978.8	2479.4	2063.1	2049.0	2021.0	2011.6	2023.3	2004.6	2014.0
35°	6498.0	5522.6	3686.4	2219.8	1995.2	1983.6	1967.2	1964.8	1967.2	1950.8	1936.8
37.5°	6540.1	5599.8	3351.9	2100.5	1953.1	1964.8	1927.4	1922.7	1880.6	1890.0	1897.0
40°	6612.6	5480.5	3080.6	1985.9	1927.4	1904.0	1871.3	1864.3	1836.2	1819.8	1836.2
42.5°	6507.4	5445.4	2813.9	1936.8	1890.0	1864.3	1840.9	1801.1	1791.7	1777.7	1768.4
45°	6423.2	5244.3	2575.3	1876.0	1845.5	1831.5	1787.1	1745.0	1709.9	1723.9	1702.9
47.5°	6486.3	5174.1	2339.1	1824.5	1784.7	1768.4	1723.9	1691.2	1656.1	1639.7	1635.0
50°	6738.9	5305.1	2140.3	1787.1	1733.3	1723.9	1665.4	1628.0	1595.3	1583.6	1588.2
52.5°	7342.4	5662.9	2004.6	1709.9	1684.1	1642.0	1609.3	1562.5	1541.5	1504.0	1527.4
55°	8107.3	6245.4	1969.5	1637.4	1623.3	1585.9	1541.5	1506.4	1466.6	1436.2	1429.2
56°	8352.9	6523.7	1941.4	1609.3	1585.9	1564.9	1506.4	1485.3	1422.2	1415.2	1410.5
57.5°	8551.7	6769.3	1946.1	1555.5	1532.1	1513.4	1478.3	1426.8	1384.7	1359.0	1370.7
60°	8102.6	6336.6	1857.2	1473.6	1469.0	1433.9	1384.7	1361.4	1309.9	1279.5	1272.5
62.5°	6023.2	4301.6	1506.4	1368.4	1366.0	1328.6	1272.5	1246.7	1237.4	1195.3	1195.3
65°	3468.9	2697.0	1302.9	1281.8	1263.1	1225.7	1169.5	1148.5	1125.1	1111.1	1099.4
67.5°	1480.6	1398.8	1183.6	1181.2	1160.2	1113.4	1057.3	1024.5	994.1	966.0	980.1
70°	1073.6	1090.0	1069.0	1057.3	1031.5	973.1	923.9	884.2	837.4	818.7	832.7
72.5°	851.4	886.5	916.9	919.3	888.9	821.0	767.2	713.4	662.0	636.2	647.9
75°	645.6	669.0	699.4	706.4	662.0	615.2	563.7	507.6	467.8	437.4	442.1
77.5°	465.5	460.8	488.9	484.2	463.1	430.4	383.6	332.2	287.7	259.6	262.0
80°	318.1	325.1	341.5	339.2	313.4	292.4	257.3	215.2	182.4	159.1	154.4
82.5°	222.2	233.9	247.9	236.2	215.2	194.1	168.4	138.0	112.3	93.6	88.9
85°	79.5	91.2	105.3	112.3	119.3	114.6	95.9	77.2	56.1	46.8	44.4
87.5°	16.4	18.7	21.1	21.1	21.1	18.7	16.4	16.4	14.0	7.0	7.0
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)