

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: P646770

Luminaire Tested: **GALN-SA2C-835-U-AFL**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P646770  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-24)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA2C-835-U-AFL  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 80 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 11178.1 lumens  
Efficiency: N/A  
Efficacy: 103.5 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G1

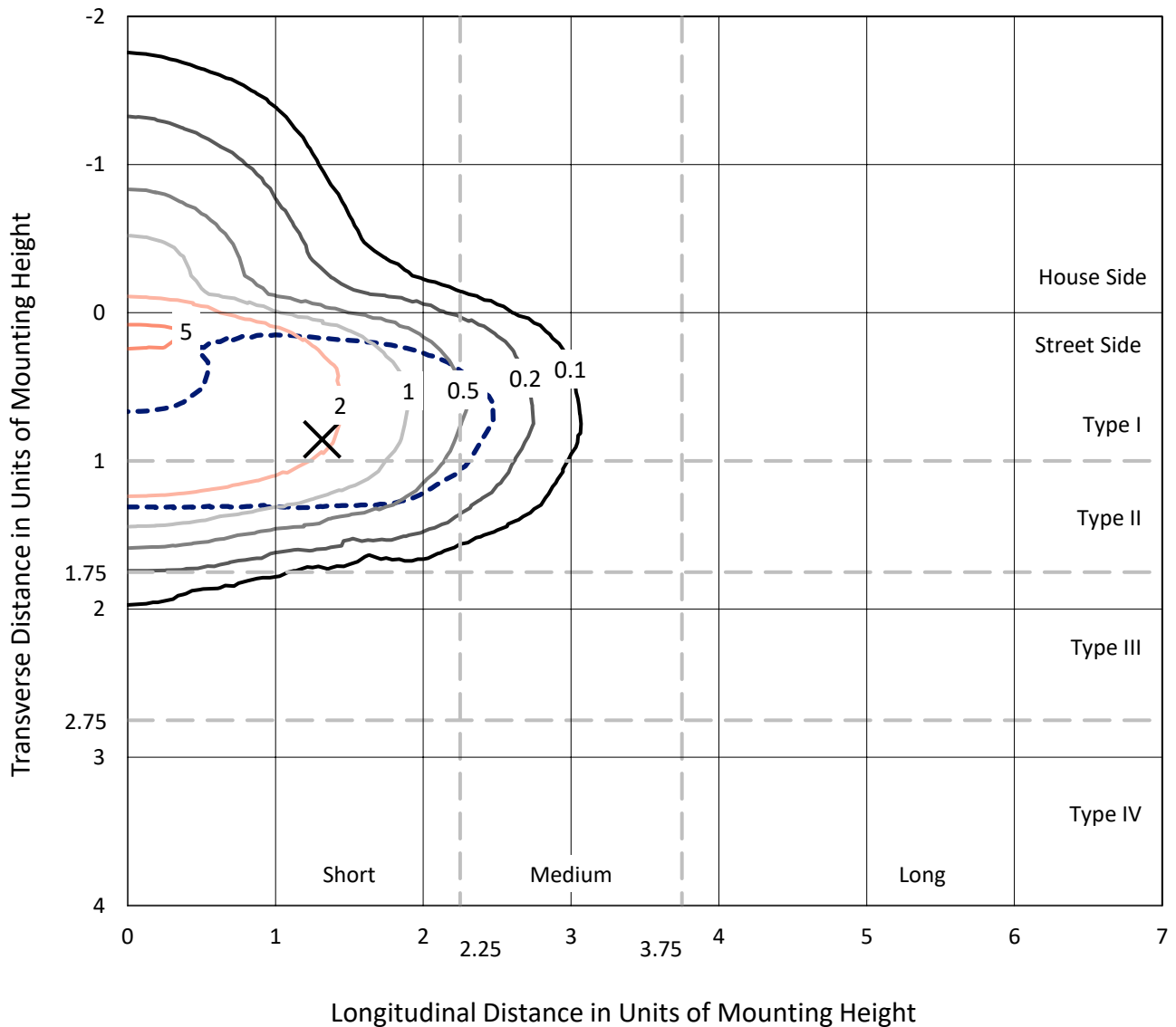
Input Watts (W): 108  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

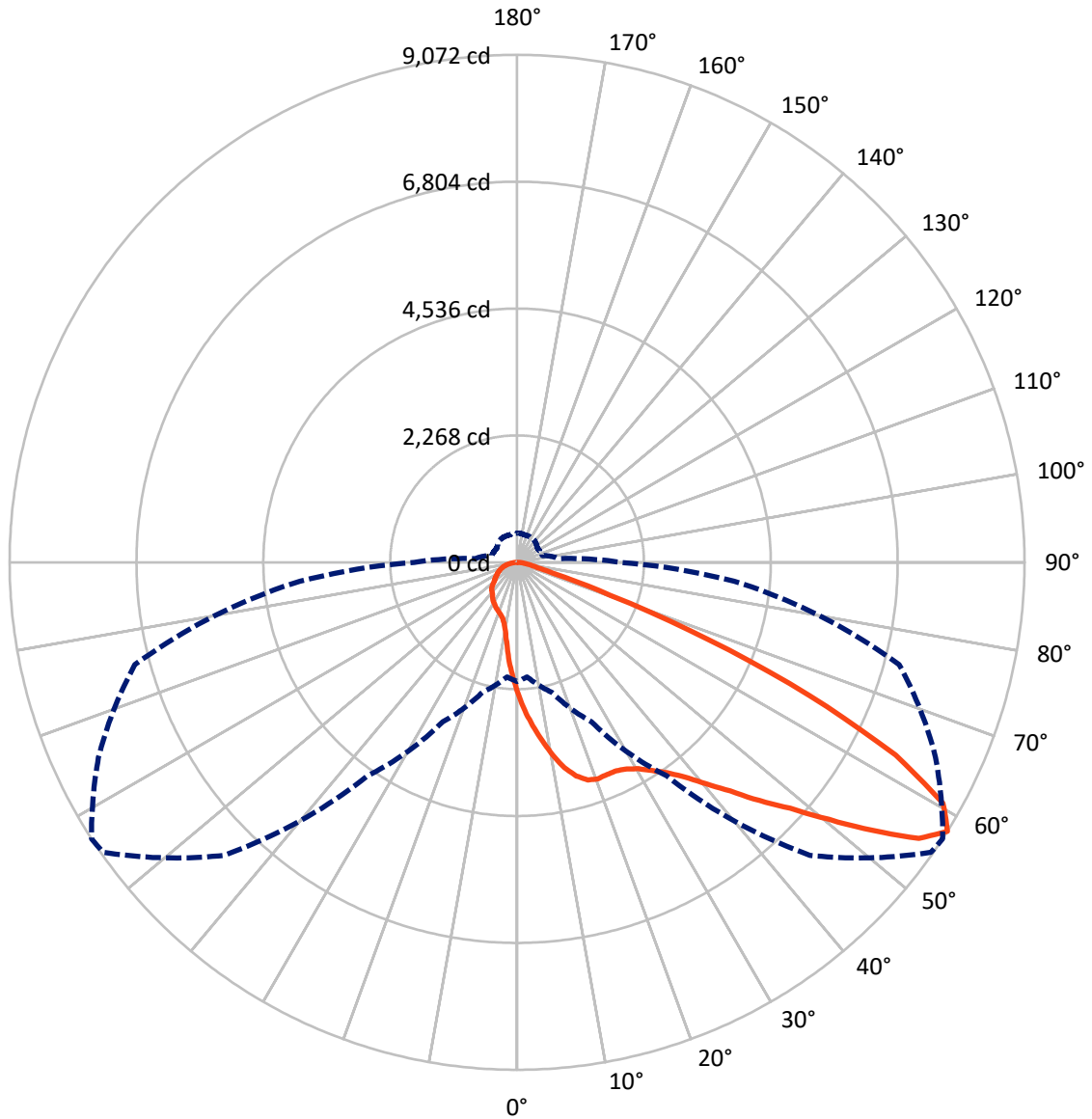
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.7 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral    - - - Horizontal Cone Through 57.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1699.9	0.0	1699.9
	% Fixture	15.2	0.0	15.2
<b>Street Side</b>	Lumens	9478.2	0.0	9478.2
	% Fixture	84.8	0.0	84.8
<b>Total</b>	Lumens	11178.1	0.0	11178.1
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	225.7	2.0
10°-20°	665.2	6.0
20°-30°	1104.5	9.9
30°-40°	1663.7	14.9
40°-50°	2497.9	22.3
50°-60°	2799.8	25.0
60°-70°	1638.6	14.7
70°-80°	484.7	4.3
80°-90°	98.0	0.9
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°	11178.1	100.0
0°-180°	11178.1	100.0

**Coefficient of Utilization**

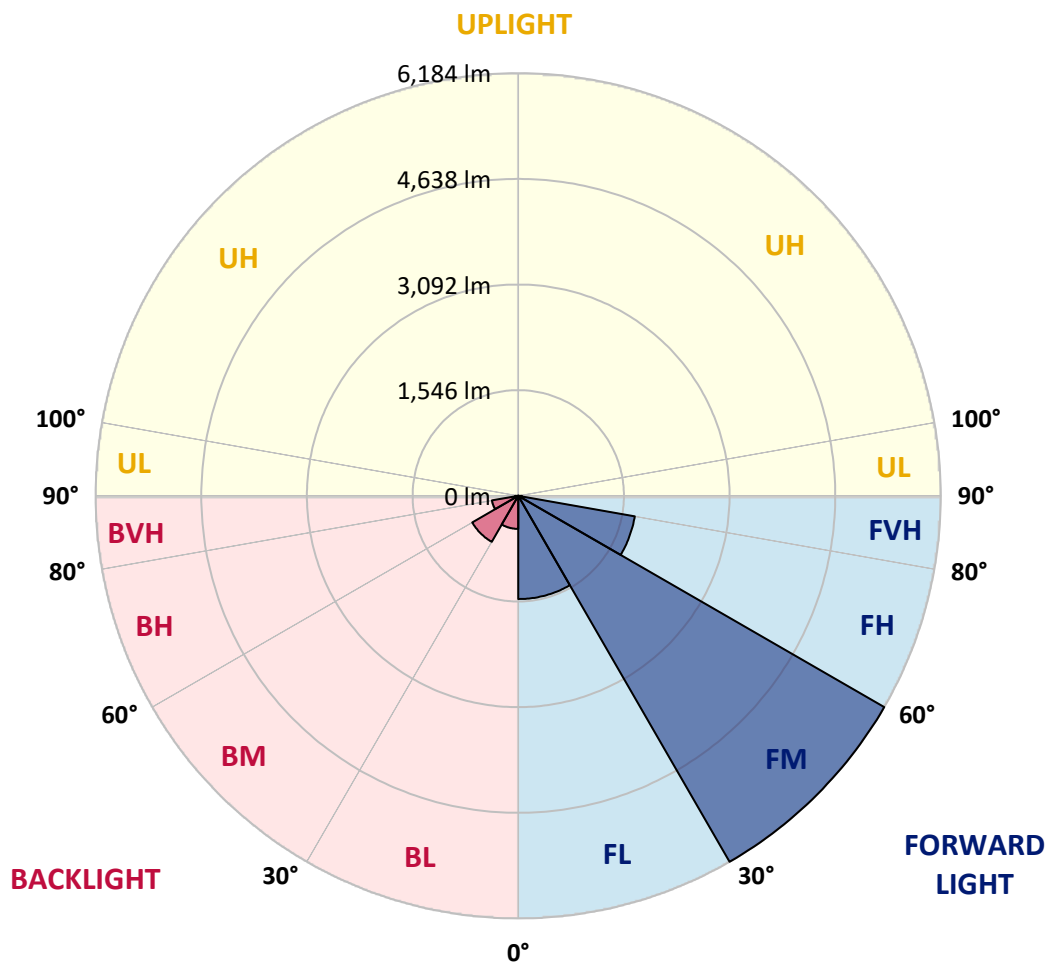


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1511.0	13.5			
FM (30°-60°)	6184.2	55.3			
FH (60°-80°)	1732.2	15.5			G1/1800
FVH (80°-90°)	50.8	0.5			G1/100
BL (0°-30°)	484.4	4.3	B1/500		
BM (30°-60°)	777.3	7.0	B1/1000		
BH (60°-80°)	391.1	3.5	B1/500		G1/500
BVH (80°-90°)	47.1	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G1**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	2348.4	2348.4	2348.4	2348.4	2348.4	2348.4	2348.4	2348.4	2348.4	2348.4	2348.4
2.5°	2918.1	2886.2	2861.2	2839.2	2810.3	2732.7	2654.9	2653.7	2591.9	2496.4	2398.6
5°	3393.4	3350.6	3356.2	3287.7	3219.1	3106.5	2941.9	2933.4	2801.8	2623.1	2441.4
7.5°	3703.1	3703.7	3686.6	3647.4	3573.4	3445.5	3258.8	3216.6	3033.7	2762.7	2490.3
10°	3687.1	3703.7	3732.5	3766.2	3788.8	3725.7	3555.6	3504.2	3266.2	2931.6	2544.8
12.5°	3475.5	3501.2	3542.1	3626.6	3763.0	3867.1	3809.0	3767.3	3535.4	3099.8	2604.8
15°	3343.3	3358.6	3381.2	3438.2	3585.0	3834.0	3984.5	3962.5	3789.4	3290.1	2672.1
17.5°	3302.9	3318.2	3325.6	3360.5	3465.1	3720.2	4053.7	4092.9	4014.5	3465.1	2740.0
20°	3343.3	3350.6	3350.6	3371.4	3453.4	3653.6	4050.6	4129.5	4199.3	3674.9	2803.6
22.5°	3449.2	3452.2	3447.9	3455.3	3516.5	3671.9	4021.9	4119.8	4348.6	3853.0	2853.2
25°	3621.1	3626.0	3597.9	3580.7	3625.4	3752.7	4037.8	4127.7	4465.5	4023.1	2886.2
27.5°	3816.3	3822.4	3788.2	3748.4	3769.2	3852.4	4100.2	4181.0	4553.0	4190.8	2907.0
30°	4055.5	4058.0	4000.5	3952.7	3939.3	4001.1	4206.7	4281.9	4661.9	4388.4	2938.2
32.5°	4300.3	4318.6	4244.6	4177.3	4154.7	4173.6	4363.9	4436.7	4791.6	4600.8	2988.4
35°	4633.2	4636.2	4547.5	4465.5	4390.8	4415.3	4565.2	4617.8	4970.9	4846.1	3059.4
37.5°	5048.6	5076.7	4954.4	4801.4	4709.7	4674.1	4808.8	4866.3	5222.4	5147.1	3166.5
40°	5510.0	5520.4	5415.8	5320.3	5152.6	5049.8	5142.8	5205.2	5532.6	5506.3	3290.7
42.5°	5800.0	5822.6	5830.6	5820.8	5694.8	5522.2	5557.7	5587.1	5899.7	5843.5	3418.0
45°	5897.9	5931.5	6045.4	6286.5	6299.9	6129.8	6047.2	6075.4	6299.9	6183.7	3539.7
47.5°	5735.8	5793.3	6003.2	6497.6	6867.8	6880.6	6631.5	6569.8	6664.6	6465.7	3627.8
50°	5316.6	5328.9	5650.1	6366.0	7133.9	7598.3	7340.7	7225.7	7010.9	6674.4	3688.4
52.5°	4668.0	4682.1	4951.3	5754.7	6970.0	8100.1	8170.4	7964.8	7362.7	6836.5	3728.2
55°	3465.1	3546.4	3842.6	4619.1	6192.8	8052.9	8830.0	8713.1	7788.0	6965.0	3790.6
57.5°	2130.5	2055.9	2407.1	3142.6	4657.6	7405.5	9033.8	9071.8	8256.1	7072.7	3895.2
60°	980.2	994.9	1140.0	1620.9	2839.2	5793.3	8508.8	8748.6	8514.9	7069.0	3921.5
62.5°	675.5	662.0	625.3	711.6	1294.8	3664.0	7187.2	7593.5	7996.1	6849.4	3816.9
65°	603.9	590.5	519.5	495.6	594.8	1597.0	5224.8	5737.6	6732.5	6295.0	3556.2
67.5°	564.2	545.8	472.4	425.9	424.6	635.7	3080.8	3698.2	4993.6	5322.1	3081.4
70°	522.6	507.9	435.0	383.7	361.6	399.6	1354.1	1772.6	3242.3	3835.3	2400.4
72.5°	480.9	463.8	398.3	343.3	314.5	299.2	518.9	674.9	1832.0	2299.4	1471.6
75°	420.4	411.8	356.1	310.9	279.6	241.7	329.2	375.7	876.2	1056.1	738.5
77.5°	367.8	358.5	316.3	271.7	249.1	196.4	233.7	255.2	369.6	428.3	333.5
80°	269.2	278.4	266.8	239.8	222.1	154.2	157.2	175.0	219.6	242.9	203.7
82.5°	170.7	187.8	205.6	184.8	168.3	121.8	108.9	115.6	149.9	159.1	90.6
85°	71.6	72.8	119.3	112.6	96.1	72.2	65.5	69.1	80.2	83.9	42.2
87.5°	27.6	26.9	42.2	39.2	30.0	20.8	20.8	23.3	31.8	29.4	13.5
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°	2348.4	2348.4	2348.4	2348.4	2348.4	2348.4	2348.4	2348.4	2348.4	2348.4	2348.4
2.5°	2356.4	2312.9	2226.6	2119.6	2041.2	1953.1	1875.4	1819.7	1798.9	1789.2	1770.8
5°	2354.5	2268.8	2090.2	1902.9	1752.4	1598.3	1467.9	1383.5	1376.1	1319.8	1314.3
7.5°	2355.1	2224.2	1939.6	1664.3	1434.8	1277.0	1169.3	1141.1	1107.5	1098.9	1103.2
10°	2357.0	2167.3	1778.1	1428.1	1206.0	1102.6	1062.2	1051.2	1052.4	1056.1	1056.7
12.5°	2359.4	2112.2	1610.5	1248.8	1077.5	1034.7	1030.4	1040.2	1050.6	1058.5	1060.4
15°	2362.5	2049.2	1447.1	1104.4	1013.3	1009.6	1023.7	1040.2	1054.9	1066.5	1068.3
17.5°	2358.8	1975.7	1310.0	1015.7	977.8	995.5	1018.8	1039.6	1053.1	1064.1	1065.3
20°	2350.3	1893.8	1177.9	953.3	955.7	984.5	1009.6	1029.2	1043.9	1049.4	1053.7
22.5°	2317.2	1795.9	1062.8	905.0	929.4	969.2	999.2	1010.9	994.3	982.7	985.7
25°	2260.9	1668.6	955.7	865.8	905.6	947.8	978.4	950.2	936.8	931.9	934.4
27.5°	2190.5	1529.1	875.0	824.8	875.0	923.9	915.4	910.5	904.4	896.4	898.3
30°	2114.6	1392.6	806.5	793.0	842.0	870.1	873.7	881.7	875.0	862.8	867.6
32.5°	2044.3	1264.2	754.4	766.1	818.7	814.4	842.0	851.1	819.9	778.9	780.7
35°	1984.4	1144.8	715.3	739.8	778.9	780.7	808.3	776.5	742.8	723.3	724.4
37.5°	1939.0	1051.8	689.6	717.1	728.1	751.4	736.7	720.2	715.9	702.4	703.1
40°	1912.1	970.5	673.1	699.4	697.6	713.5	666.3	682.9	689.0	684.7	685.3
42.5°	1885.2	912.9	655.9	674.9	674.3	643.1	632.7	646.8	662.7	664.5	663.3
45°	1863.8	868.3	638.2	637.6	649.8	600.9	597.8	606.4	629.0	640.0	639.4
47.5°	1839.9	830.9	611.3	594.1	597.8	574.6	569.6	573.3	600.9	618.6	623.5
50°	1809.9	793.6	577.6	554.4	539.1	550.1	551.3	551.9	579.4	599.6	603.9
52.5°	1786.1	765.5	539.1	521.9	503.5	528.1	537.2	538.5	555.0	571.5	574.6
55°	1800.1	749.6	501.1	488.9	472.4	505.4	523.1	525.6	529.3	541.5	543.3
57.5°	1842.4	753.2	470.5	454.6	442.4	478.5	508.5	510.3	507.9	522.6	525.0
60°	1855.2	751.4	447.9	416.7	409.4	449.8	487.0	490.7	490.1	511.5	515.8
62.5°	1801.4	728.1	425.2	384.8	380.0	420.4	457.0	471.8	474.8	505.4	510.9
65°	1674.7	680.4	395.3	351.3	351.3	389.2	428.3	448.5	457.0	498.1	504.2
67.5°	1507.7	624.1	364.6	322.4	321.3	359.2	397.7	418.5	432.0	487.7	491.3
70°	1251.3	548.3	326.7	291.3	291.3	325.5	360.4	385.5	405.0	468.1	468.1
72.5°	857.2	455.9	280.9	255.7	256.4	288.2	323.7	351.8	375.1	428.9	430.2
75°	542.1	356.1	230.7	217.8	220.3	250.2	287.0	316.3	362.8	424.0	425.9
77.5°	288.2	250.2	183.5	180.5	183.5	211.1	252.1	292.5	364.1	367.8	361.6
80°	186.6	177.4	145.0	138.9	140.2	170.1	224.6	277.8	292.5	296.1	282.7
82.5°	101.6	112.6	102.8	96.7	96.7	132.8	191.5	220.9	209.8	174.4	166.5
85°	43.5	52.6	53.2	46.5	44.6	82.0	128.5	120.5	112.0	107.1	105.9
87.5°	12.2	17.1	17.1	12.8	9.8	22.6	25.7	7.4	0.0	0.6	1.3
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)