

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: P652568

Luminaire Tested: **GALN-SA8B-840-U-T2-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P652568
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-SA8B-840-U-T2-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 4000K, 800mA 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: 22794.5 lumens
Efficiency: N/A
Efficacy: 70.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

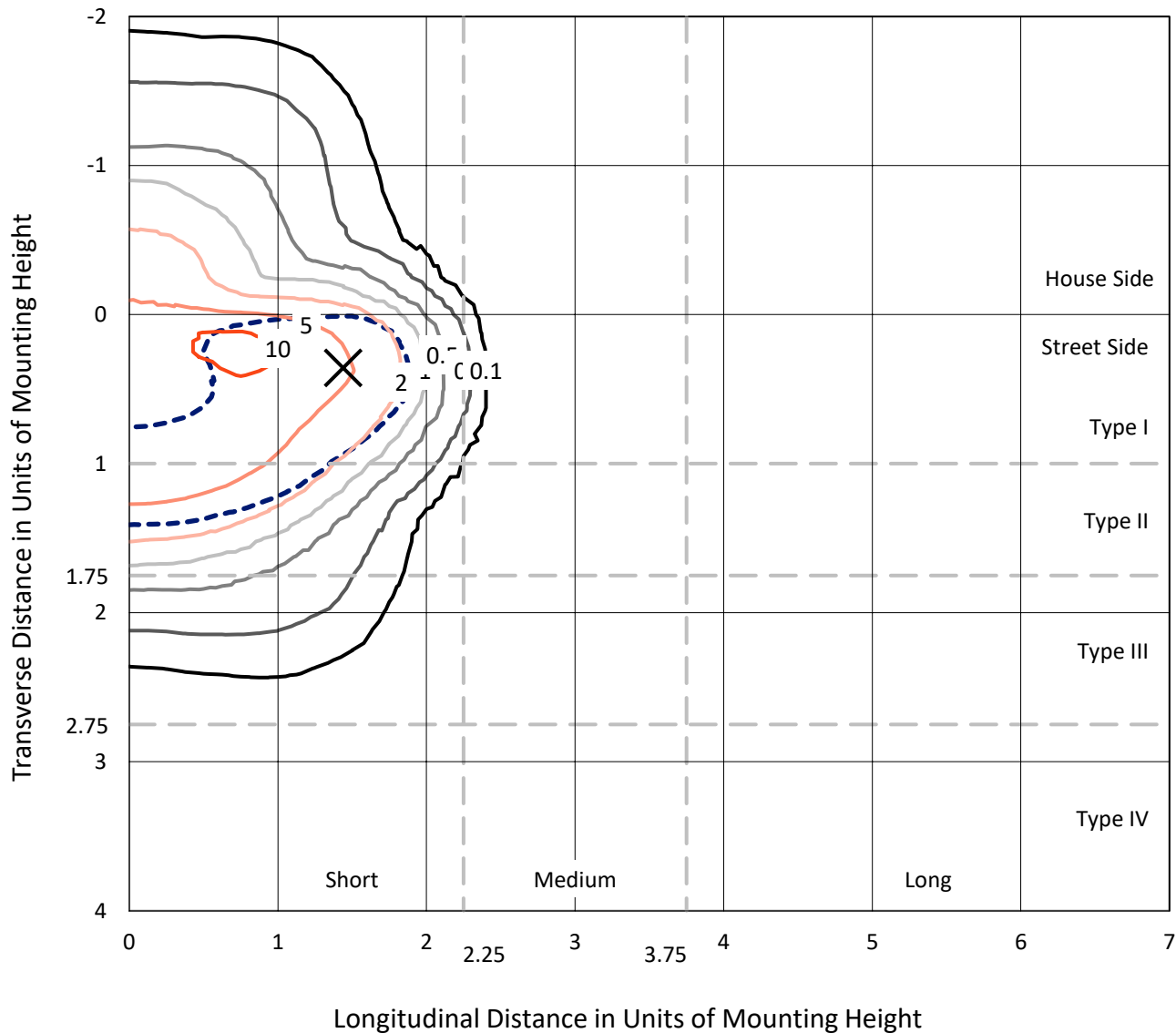
Input Watts (W): 325
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

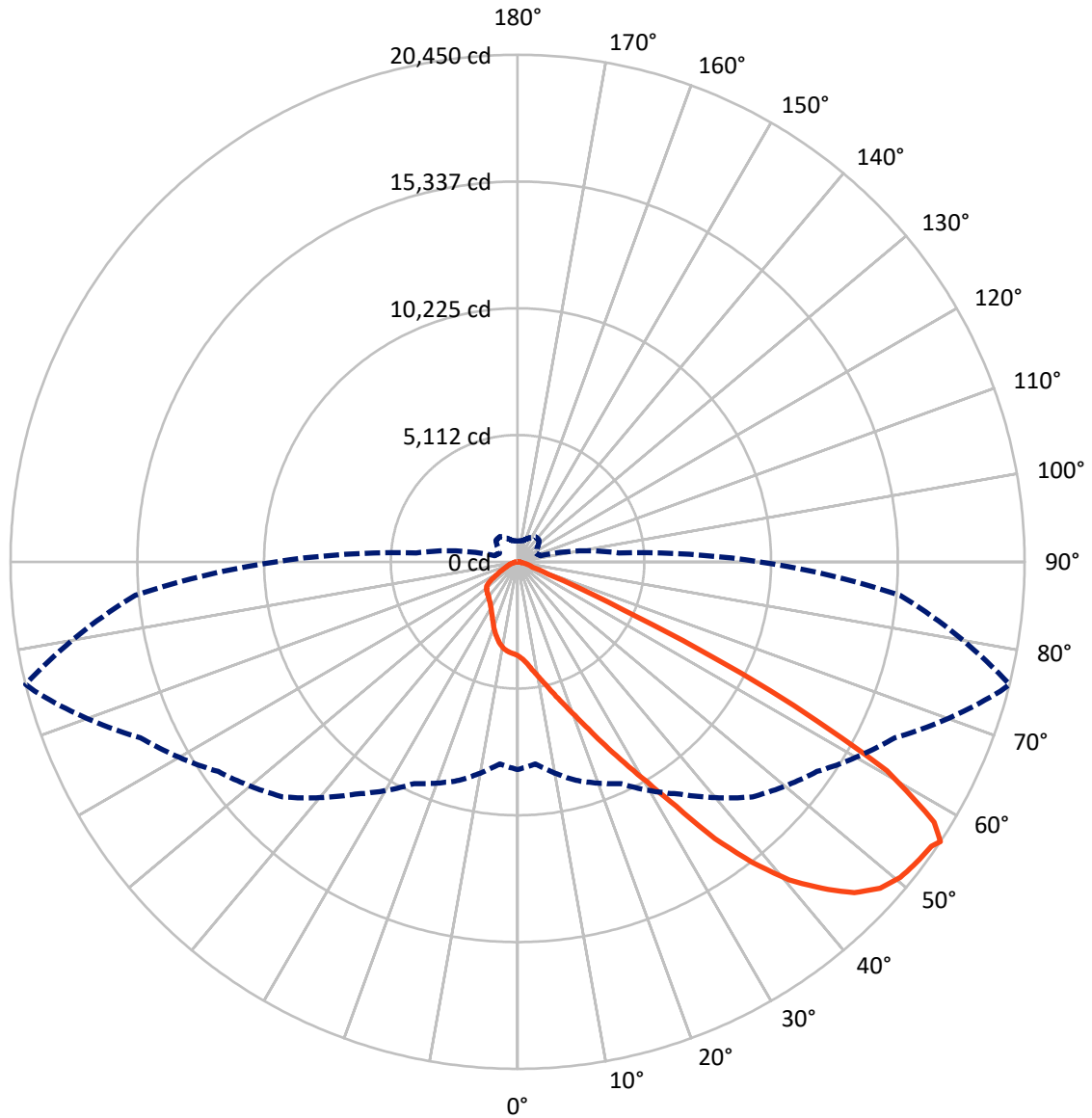
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12 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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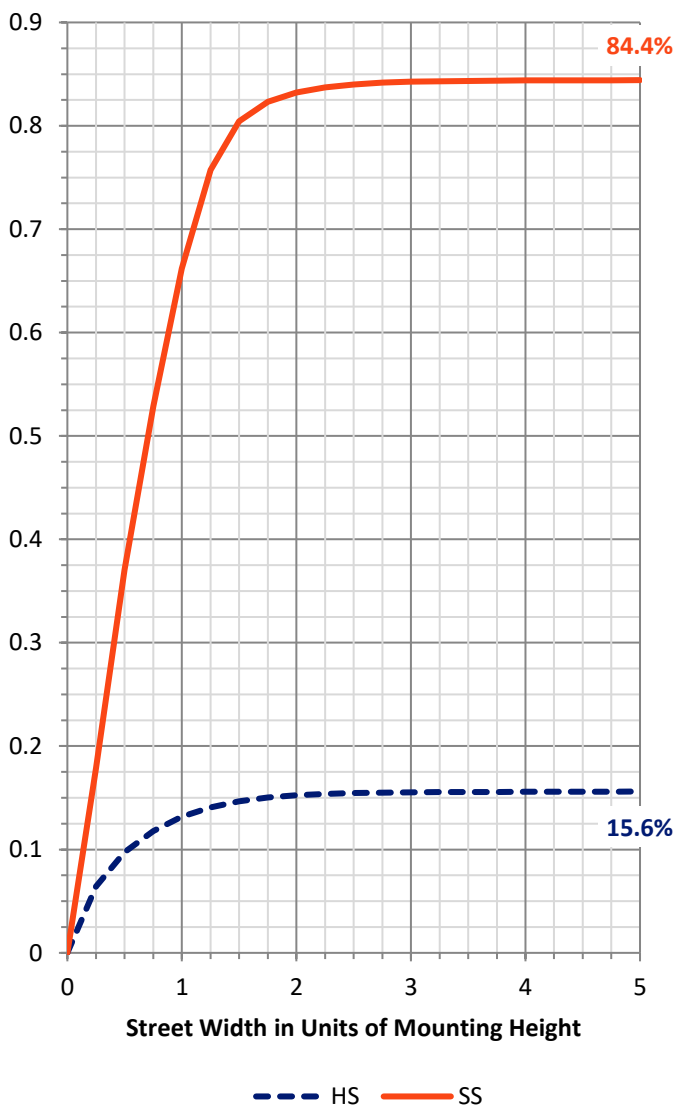
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3580.9	0.0	3580.9
	% Fixture	15.7	0.0	15.7
Street Side	Lumens	19213.6	0.0	19213.6
	% Fixture	84.3	0.0	84.3
Total	Lumens	22794.5	0.0	22794.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	382.2	1.7
10°-20°	1227.9	5.4
20°-30°	2226.5	9.8
30°-40°	3839.7	16.8
40°-50°	6237.8	27.4
50°-60°	6574.8	28.8
60°-70°	2008.9	8.8
70°-80°	257.5	1.1
80°-90°	39.1	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°	22794.5	100.0
0°-180°	22794.5	100.0

Coefficient of Utilization



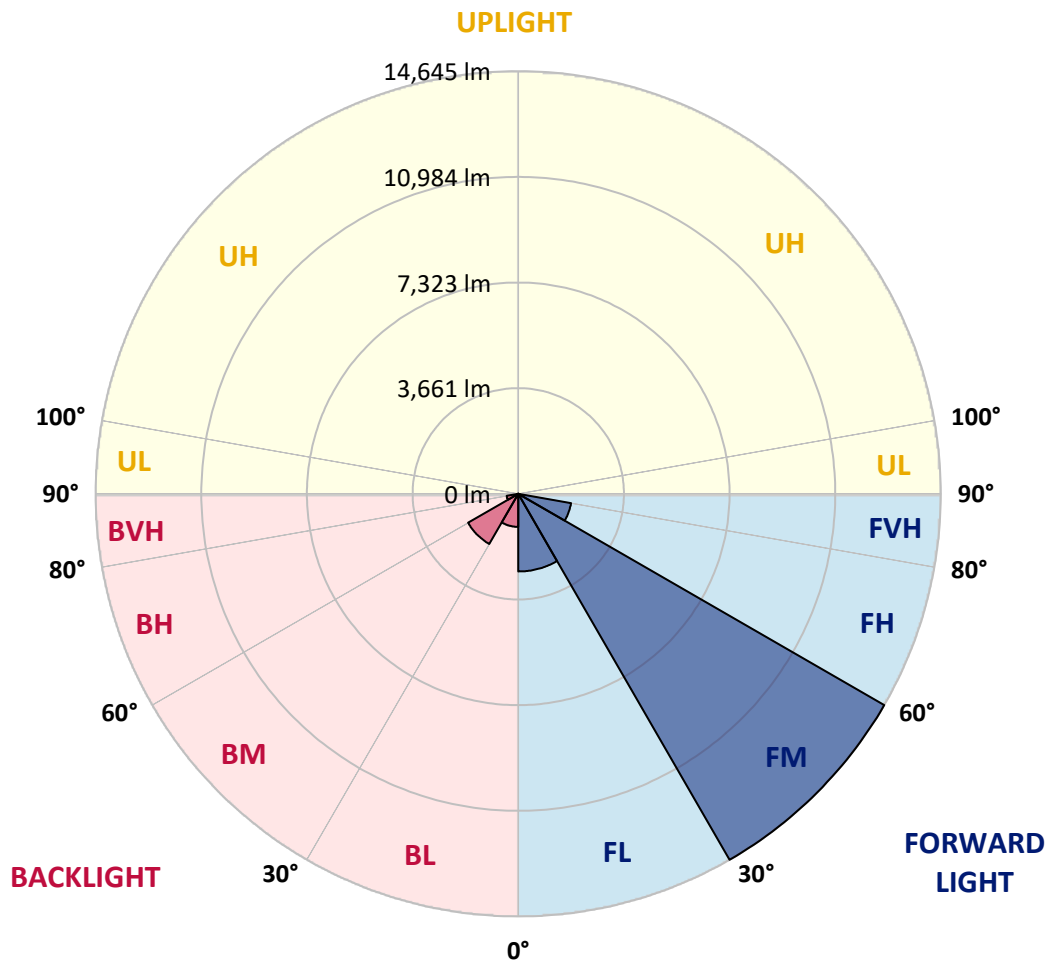
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2691.1	11.8			
FM (30°-60°)	14645.4	64.2			
FH (60°-80°)	1857.9	8.2			G2/5000
FVH (80°-90°)	19.2	0.1			G1/100
BL (0°-30°)	1145.5	5.0	B3/2500		
BM (30°-60°)	2006.9	8.8	B2/2500		
BH (60°-80°)	408.5	1.8	B1/500		G1/500
BVH (80°-90°)	20.0	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: 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°	3794.2	3794.2	3794.2	3794.2	3794.2	3794.2	3794.2	3794.2	3794.2	3794.2	3794.2
2.5°	4369.8	4269.0	4273.2	4264.8	4252.2	4205.9	4067.2	4046.3	3953.9	3928.6	3844.6
5°	4895.0	4806.8	4857.2	4781.6	4710.2	4668.1	4441.2	4336.2	4189.1	4134.5	4016.9
7.5°	5222.8	5180.7	5163.9	5168.1	5100.9	4995.9	4895.0	4663.9	4466.5	4424.4	4176.5
10°	5382.4	5357.3	5382.4	5369.8	5399.2	5411.8	5235.4	5096.7	4806.8	4735.3	4348.8
12.5°	5420.2	5470.7	5491.6	5546.3	5617.7	5739.6	5727.0	5537.9	5151.4	5105.1	4613.5
15°	5512.7	5554.7	5533.7	5621.9	5756.4	5962.3	6071.5	6042.1	5626.1	5542.1	4920.3
17.5°	5596.7	5521.1	5592.5	5769.0	5903.5	6218.6	6483.3	6605.1	6142.9	6046.3	5201.8
20°	5710.1	5689.2	5676.6	5764.8	6004.3	6424.5	6949.7	7172.4	6722.8	6621.9	5605.1
22.5°	6054.7	6058.9	6050.5	5920.2	6092.5	6567.3	7357.2	7907.7	7416.1	7332.0	6063.1
25°	6508.5	6453.8	6411.9	6306.8	6285.8	6697.6	7769.0	8806.9	8248.0	8189.2	6559.0
27.5°	6987.5	6987.5	6861.5	6764.8	6630.4	7021.1	8147.2	9680.8	9252.3	9172.4	6991.7
30°	7508.5	7537.9	7521.1	7315.3	7231.2	7374.1	8533.7	10798.4	10403.5	10302.7	7706.0
32.5°	8277.5	8214.4	8285.9	8113.5	7865.6	7991.7	9143.0	11798.5	11899.3	11756.5	8643.0
35°	9294.2	9256.5	9210.2	8928.7	8634.5	8735.4	10004.4	13029.6	13777.5	13706.1	9588.4
37.5°	10206.0	10185.0	10147.2	9953.9	9613.6	9735.4	10983.4	14311.1	15609.5	15374.2	10924.5
40°	11164.0	11277.5	11155.6	10983.4	10672.5	10941.3	12134.6	15071.6	17151.5	16865.8	11945.6
42.5°	12462.4	12374.1	12428.7	12113.6	11945.6	12239.7	13290.1	15832.2	18349.0	18008.7	13029.6
45°	13844.7	13848.9	13701.9	13601.1	13164.1	13483.4	14000.2	16252.3	19302.8	19038.1	13848.9
47.5°	14731.3	14727.1	14886.8	15046.4	14596.8	14281.7	14483.4	16651.5	19794.4	19672.6	14147.3
50°	14592.6	14634.7	14840.5	15437.2	15672.5	15248.1	14937.2	16533.9	20017.1	20004.5	14403.6
52.5°	12693.5	12832.1	13176.7	14038.1	15222.9	15748.1	15412.0	16752.4	20126.3	20147.3	14786.0
55°	9664.0	9739.6	10395.1	11441.4	12752.3	14550.6	15222.9	16924.6	20210.4	20248.2	15248.1
56°	8382.5	8180.8	9126.2	9869.9	11437.2	13403.5	14743.9	16790.1	20159.9	20449.8	15479.2
57.5°	6327.9	6193.4	6958.1	7886.6	9395.1	11470.7	13256.5	16155.7	19819.6	19815.4	15147.3
60°	3848.8	3714.4	4302.6	4848.8	5693.4	7063.1	8958.1	12865.7	16756.5	17109.5	12264.9
62.5°	2290.0	2374.0	2953.8	3285.8	3558.9	3701.7	4634.5	7647.1	11180.8	11433.0	7609.4
65°	1525.2	1554.7	1991.7	2537.9	2659.7	2117.6	1886.6	3096.6	4848.8	4693.4	3138.7
67.5°	941.2	1008.4	1336.2	1907.6	2113.5	1546.3	895.0	1155.4	1336.2	1336.2	907.6
70°	571.5	605.0	890.8	1298.3	1449.6	995.8	651.3	651.3	642.9	630.2	542.0
72.5°	273.1	294.1	453.8	668.1	680.7	525.2	504.2	550.4	537.8	533.6	449.6
75°	117.7	126.1	159.7	210.1	239.5	222.7	306.7	394.9	407.5	394.9	323.5
77.5°	37.8	42.0	58.8	75.6	79.8	96.6	130.3	163.8	189.1	176.4	159.7
80°	4.2	8.4	16.8	37.8	58.8	75.6	96.6	109.2	121.9	121.9	113.5
82.5°	4.2	4.2	16.8	33.6	54.6	71.4	92.4	105.0	121.9	126.1	117.7
85°	0.0	4.2	12.6	29.4	46.3	46.3	42.0	42.0	29.4	29.4	29.4
87.5°	0.0	0.0	4.2	4.2	4.2	8.4	8.4	8.4	8.4	8.4	8.4
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°	3794.2	3794.2	3794.2	3794.2	3794.2	3794.2	3794.2	3794.2	3794.2	3794.2	3794.2
2.5°	3827.8	3819.4	3706.0	3634.5	3596.7	3521.1	3474.8	3441.2	3416.1	3386.6	3390.8
5°	3878.2	3848.8	3659.7	3529.4	3374.0	3290.0	3218.5	3159.7	3121.9	3113.5	3096.6
7.5°	4021.1	3865.6	3579.9	3344.6	3147.1	3063.1	3000.0	2962.3	2979.1	2941.2	2970.7
10°	4130.3	3899.2	3483.3	3142.9	2945.4	2882.4	2848.8	2878.2	2920.2	2903.4	2882.4
12.5°	4264.8	3932.9	3327.8	2949.6	2764.8	2718.5	2777.3	2832.0	2916.0	2949.6	2907.6
15°	4416.0	3970.6	3130.3	2726.9	2609.3	2647.1	2748.0	2844.6	2928.6	2970.7	2995.8
17.5°	4600.9	3958.1	2937.0	2550.4	2462.2	2571.4	2693.3	2781.5	2907.6	2970.7	2953.8
20°	4773.2	3916.0	2722.7	2374.0	2378.2	2479.0	2579.9	2722.7	2789.9	2874.0	2844.6
22.5°	4937.0	3840.4	2500.0	2252.1	2252.1	2407.6	2458.0	2550.4	2609.3	2651.3	2647.1
25°	5168.1	3697.5	2315.2	2134.5	2184.9	2285.8	2327.8	2357.2	2331.9	2365.6	2369.8
27.5°	5332.0	3550.4	2163.9	2029.4	2121.8	2197.5	2184.9	2168.1	2109.3	2063.1	2092.5
30°	5508.5	3378.2	2033.6	1958.0	2008.4	2075.7	2025.2	1974.8	1882.4	1806.7	1810.9
32.5°	5760.6	3298.4	1920.2	1874.0	1941.2	1949.6	1895.0	1819.3	1726.9	1655.5	1651.3
35°	6231.2	3247.9	1823.5	1819.3	1832.0	1836.2	1781.6	1689.1	1651.3	1592.4	1613.5
37.5°	6701.8	3222.7	1756.3	1739.5	1735.3	1739.5	1676.5	1588.2	1659.7	1655.5	1663.9
40°	7302.7	3336.2	1659.7	1638.7	1642.9	1642.9	1563.1	1537.9	1663.9	1676.5	1680.7
42.5°	7911.9	3479.0	1596.6	1529.4	1546.3	1546.3	1504.2	1474.8	1563.1	1479.0	1466.4
45°	8441.3	3689.1	1529.4	1420.2	1462.2	1483.2	1470.6	1420.2	1365.5	1222.7	1222.7
47.5°	8613.6	3874.0	1449.6	1315.2	1348.8	1441.2	1403.4	1298.3	1201.7	1084.0	1075.6
50°	8916.1	4075.7	1386.6	1193.3	1264.7	1378.1	1340.4	1235.3	1126.1	1042.0	1046.2
52.5°	9227.0	4306.8	1268.9	1050.4	1138.7	1327.8	1327.8	1210.1	1042.0	983.2	974.8
55°	9693.5	4298.4	1058.8	861.4	1016.9	1252.1	1273.1	1084.0	932.8	886.6	886.6
56°	9760.6	4105.1	953.8	806.8	962.2	1231.1	1235.3	1050.4	890.8	840.3	840.3
57.5°	9256.5	3706.0	836.1	739.5	895.0	1193.3	1197.5	1021.1	857.1	785.7	777.3
60°	7121.9	2508.5	697.5	659.7	811.0	1075.6	1096.7	928.5	752.1	697.5	693.3
62.5°	4021.1	1390.8	613.4	596.6	697.5	916.0	979.0	811.0	638.7	609.2	617.6
65°	1836.2	764.7	516.8	483.2	563.0	705.9	790.0	668.1	525.2	491.6	491.6
67.5°	672.3	521.0	441.2	382.3	394.9	458.0	512.6	432.8	348.8	298.3	310.9
70°	479.0	437.0	386.5	331.9	306.7	298.3	294.1	243.7	172.2	134.5	142.9
72.5°	386.5	361.4	323.5	281.5	239.5	201.7	172.2	126.1	79.8	54.6	50.5
75°	277.3	264.7	235.3	201.7	168.0	142.9	117.7	79.8	42.0	21.0	21.0
77.5°	142.9	142.9	138.7	126.1	105.0	84.0	67.2	46.3	25.2	8.4	8.4
80°	109.2	117.7	121.9	109.2	96.6	75.6	54.6	33.6	16.8	4.2	4.2
82.5°	105.0	121.9	130.3	113.5	96.6	71.4	54.6	33.6	16.8	4.2	4.2
85°	25.2	25.2	37.8	42.0	54.6	58.8	46.3	29.4	12.6	4.2	4.2
87.5°	8.4	8.4	8.4	8.4	8.4	8.4	4.2	4.2	4.2	4.2	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)