

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: P529337

Luminaire Tested: **GALN-SA4C-727-U-T3R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529337
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-11)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA4C-727-U-T3R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14146 lumens
Efficiency: N/A
Efficacy: 66.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

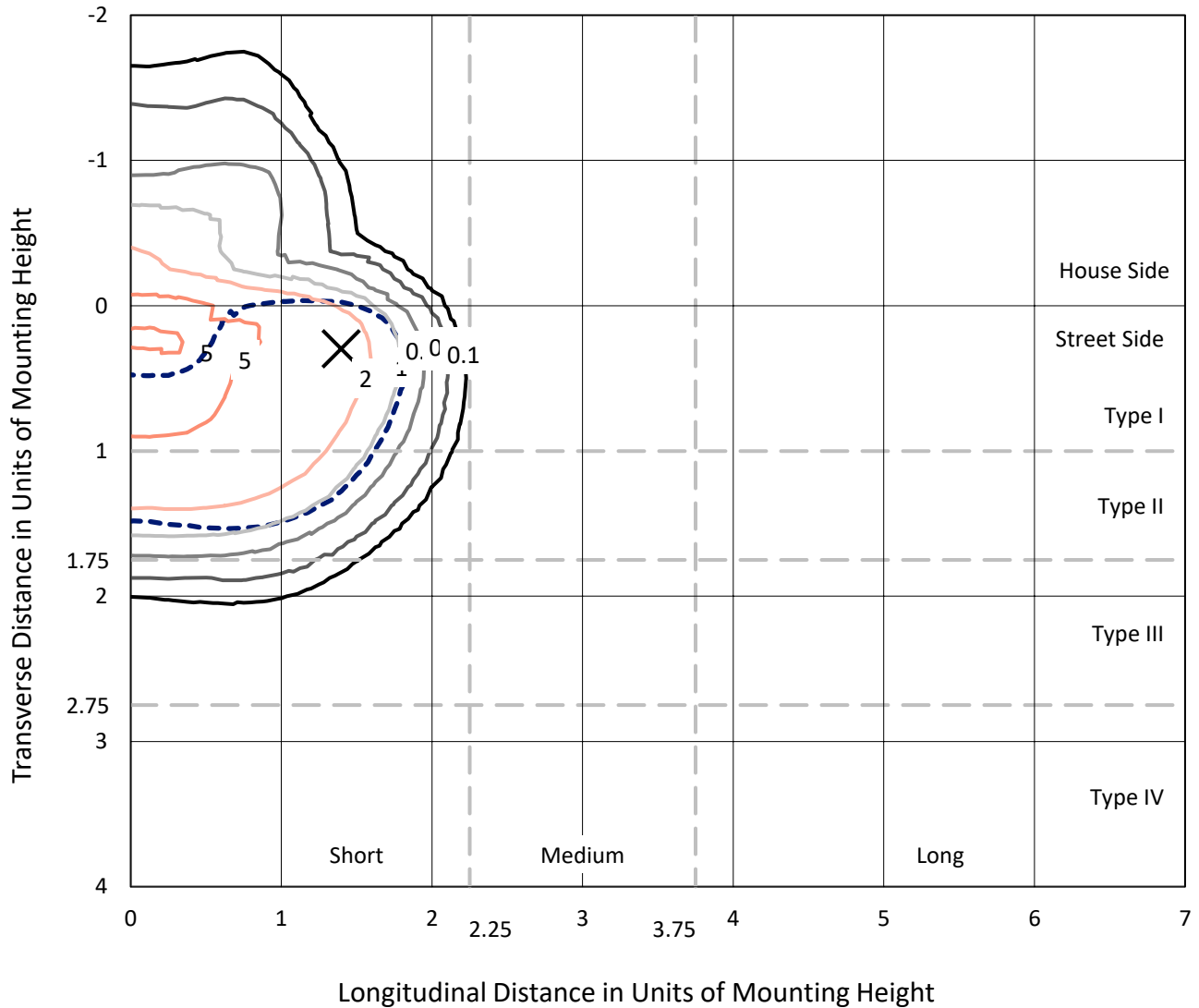
Input Watts (W): 213
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

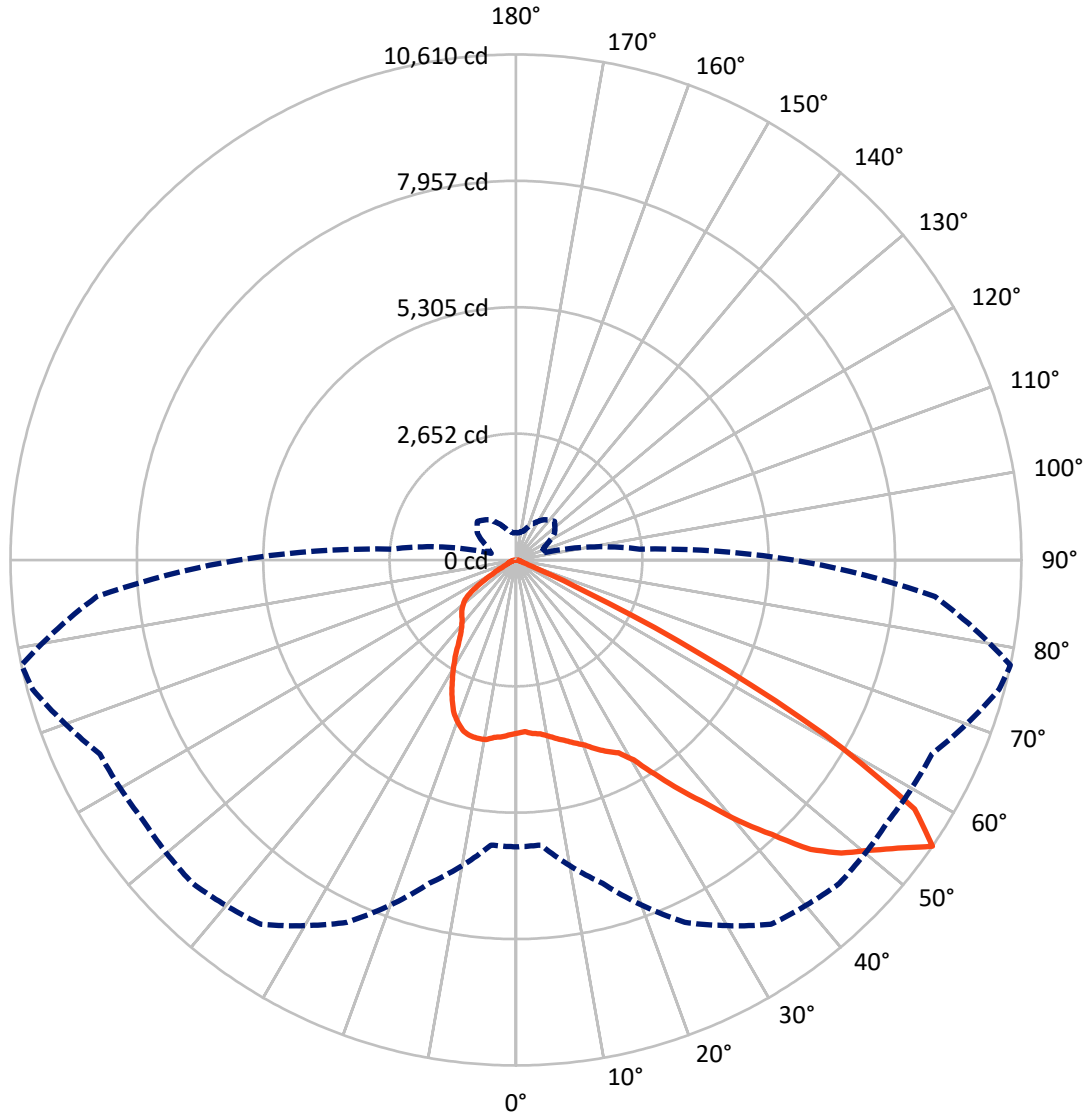
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.3 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 78-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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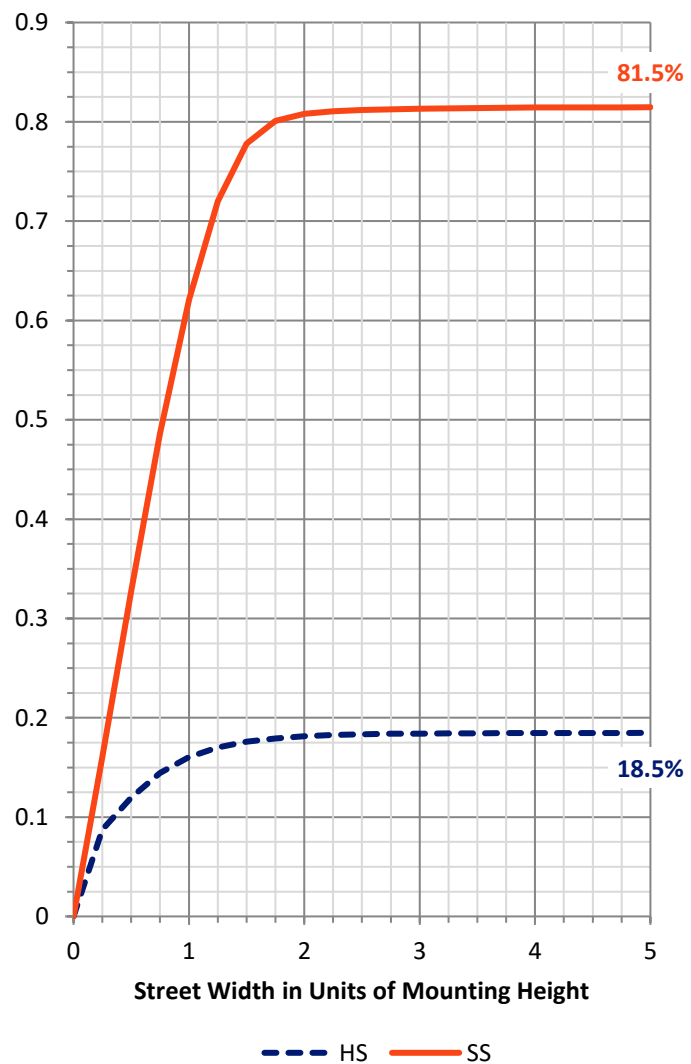
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2627.5	0.0	2627.5
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	11518.5	0.0	11518.5
	% Fixture	81.4	0.0	81.4
Total	Lumens	14146.0	0.0	14146.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	324.3	2.3
10°-20°	858.3	6.1
20°-30°	1504.4	10.6
30°-40°	2480.5	17.5
40°-50°	3609.5	25.5
50°-60°	4089.9	28.9
60°-70°	1169.4	8.3
70°-80°	90.8	0.6
80°-90°	18.9	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°	14146.0	100.0
0°-180°	14146.0	100.0

Coefficient of Utilization



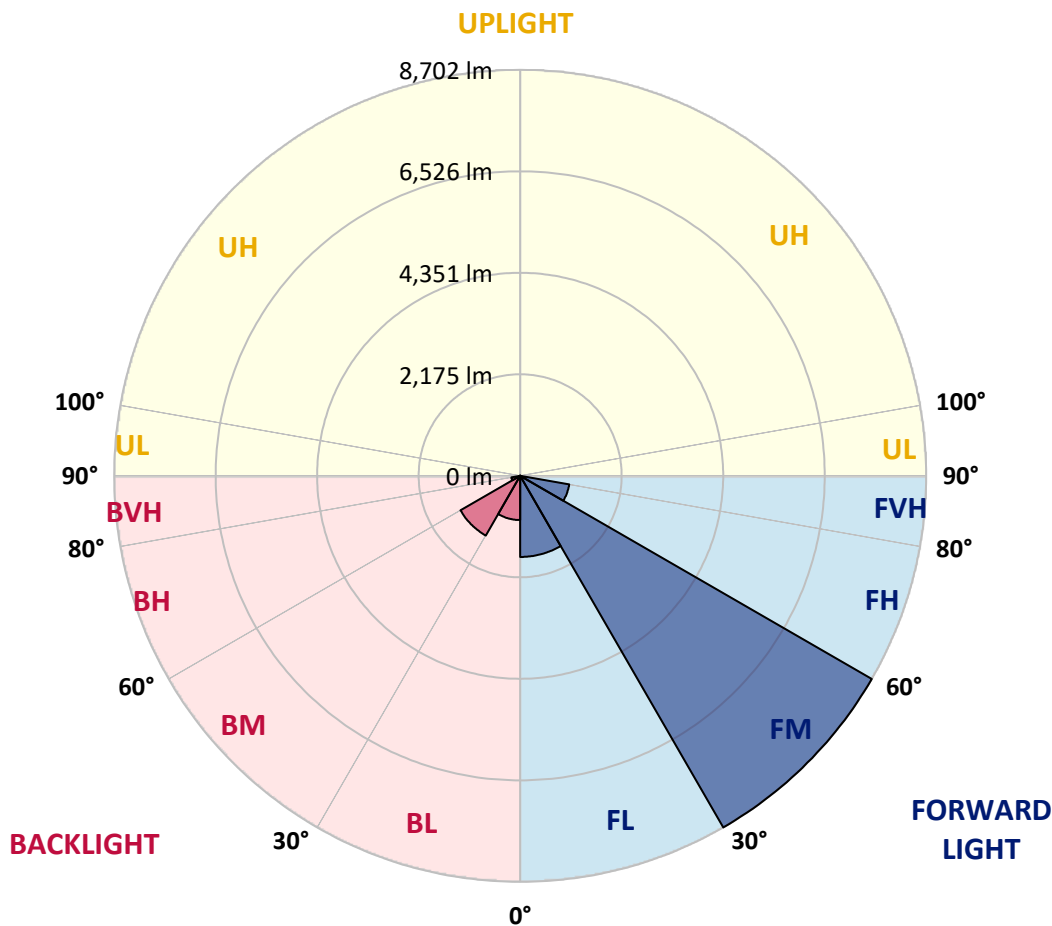
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1738.9	12.3			
FM (30°-60°)	8702.0	61.5			
FH (60°-80°)	1068.4	7.6			G1/1800
FVH (80°-90°)	9.2	0.1			G0/10
BL (0°-30°)	948.0	6.7	B2/1000		
BM (30°-60°)	1478.0	10.4	B2/2500		
BH (60°-80°)	191.8	1.4	B1/500		G1/500
BVH (80°-90°)	9.7	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	78°	85°
0°	3636.9	3636.9	3636.9	3636.9	3636.9	3636.9	3636.9	3636.9	3636.9	3636.9	3636.9
2.5°	3419.4	3452.3	3457.4	3497.8	3495.3	3563.6	3583.8	3586.4	3631.9	3609.1	3667.3
5°	3323.3	3305.6	3298.0	3368.9	3389.1	3449.8	3500.4	3530.7	3624.3	3657.2	3717.9
7.5°	3237.3	3237.3	3242.4	3305.6	3298.0	3376.4	3429.6	3523.1	3659.7	3687.5	3760.9
10°	3153.9	3123.5	3161.5	3227.2	3282.9	3318.3	3429.6	3518.1	3677.4	3758.3	3859.5
12.5°	3110.9	3126.1	3131.1	3179.2	3239.9	3346.1	3406.8	3553.5	3803.9	3851.9	3960.7
15°	3381.5	3351.1	3277.8	3234.8	3285.4	3336.0	3487.7	3636.9	3869.6	3937.9	4059.3
17.5°	3695.1	3669.8	3609.1	3492.8	3379.0	3472.5	3591.4	3728.0	3940.4	4041.6	4221.2
20°	4104.8	4064.4	4003.7	3776.0	3677.4	3576.2	3702.7	3864.6	4056.8	4147.8	4332.5
22.5°	4593.0	4593.0	4456.4	4180.7	3975.9	3879.7	3932.9	4026.4	4185.8	4309.7	4491.8
25°	5101.3	5086.2	4962.2	4676.4	4329.9	4216.1	4276.8	4342.6	4385.6	4453.9	4575.3
27.5°	5683.0	5594.5	5437.7	5121.6	4815.5	4595.5	4661.3	4603.1	4550.0	4585.4	4759.9
30°	6077.6	6133.2	5933.4	5629.9	5341.6	5096.3	5108.9	5058.3	4815.5	4866.1	4969.8
32.5°	6487.3	6522.7	6411.4	6244.5	5956.2	5670.4	5566.7	5523.7	5341.6	5364.4	5263.2
35°	6828.8	6897.0	6798.4	6725.1	6641.6	6411.4	6125.6	6264.8	5971.4	5915.7	5652.7
37.5°	7142.4	7122.1	7238.5	7162.6	7144.9	6983.0	6669.4	6697.2	6500.0	6487.3	6183.8
40°	7423.1	7428.2	7587.5	7622.9	7552.1	7263.8	6808.5	7028.6	7187.9	7203.1	6813.6
42.5°	7655.8	7724.1	7860.7	8146.5	8040.2	7559.7	6952.7	7193.0	7784.8	7878.4	7410.5
45°	7858.1	7997.2	8166.7	8422.1	8361.4	7979.5	7311.8	7531.9	8422.1	8667.5	7971.9
47.5°	7870.8	8052.9	8237.5	8616.9	8692.8	8204.6	7683.6	8068.0	8928.0	9193.5	8381.7
50°	7820.2	7916.3	8285.6	8697.8	8869.8	8571.4	8204.6	8518.2	9418.6	9585.6	8589.1
52.5°	7220.8	7294.1	8035.2	8773.7	9188.5	8986.1	8895.1	9145.5	9919.4	10043.3	8783.8
55°	6019.4	6006.8	7026.0	8391.8	9335.2	9600.7	9545.1	9633.6	10498.6	10609.9	8831.9
57.5°	4117.5	4347.6	5227.8	6988.1	8437.3	9456.6	9514.7	9368.0	9823.3	9866.3	7698.8
60°	2220.6	2316.7	3024.9	4663.8	6424.1	7706.4	7858.1	7592.6	7557.2	7435.8	5495.9
62.5°	882.7	930.7	1332.9	2309.1	3500.4	4684.0	5010.3	4901.5	4668.8	4350.2	2845.3
65°	419.8	450.2	662.6	1080.0	1552.9	1952.5	2278.8	2379.9	1755.2	1580.7	938.3
67.5°	285.8	308.6	483.1	617.1	553.9	579.2	753.7	700.6	412.3	351.6	260.5
70°	217.5	232.7	387.0	419.8	247.9	174.5	194.7	182.1	169.5	172.0	169.5
72.5°	154.3	166.9	283.3	247.9	108.8	80.9	103.7	123.9	123.9	123.9	121.4
75°	93.6	106.2	164.4	96.1	43.0	43.0	65.8	83.5	88.5	91.1	86.0
77.5°	48.1	60.7	55.6	27.8	27.8	32.9	48.1	58.2	63.2	63.2	60.7
80°	10.1	10.1	10.1	15.2	27.8	35.4	48.1	53.1	60.7	60.7	55.6
82.5°	0.0	2.5	7.6	15.2	25.3	32.9	45.5	53.1	60.7	63.2	58.2
85°	0.0	2.5	5.1	10.1	17.7	20.2	17.7	15.2	15.2	15.2	15.2
87.5°	0.0	0.0	2.5	2.5	2.5	5.1	5.1	5.1	5.1	5.1	5.1
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°	3636.9	3636.9	3636.9	3636.9	3636.9	3636.9	3636.9	3636.9	3636.9	3636.9	3636.9
2.5°	3672.4	3679.9	3667.3	3664.8	3654.6	3685.0	3611.7	3593.9	3639.5	3596.5	3606.6
5°	3720.4	3738.1	3715.3	3677.4	3621.8	3535.8	3462.4	3366.3	3320.8	3287.9	3282.9
7.5°	3755.8	3768.5	3745.7	3624.3	3457.4	3239.9	3078.0	2959.1	2865.5	2837.7	2792.2
10°	3900.0	3902.5	3788.7	3520.6	3194.3	2908.5	2660.7	2478.6	2385.0	2326.8	2301.5
12.5°	3996.1	3991.0	3760.9	3315.7	2880.7	2501.3	2218.1	1998.0	1912.1	1884.2	1866.5
15°	4117.5	4089.7	3695.1	3105.8	2476.1	2066.3	1810.9	1659.1	1651.5	1633.8	1651.5
17.5°	4213.6	4135.2	3599.0	2723.9	2089.1	1702.1	1535.2	1545.3	1565.6	1583.3	1585.8
20°	4370.4	4208.5	3379.0	2390.1	1730.0	1459.3	1456.8	1502.3	1552.9	1573.1	1593.4
22.5°	4489.3	4238.9	3143.8	2033.5	1436.6	1360.7	1403.7	1472.0	1509.9	1530.1	1560.5
25°	4532.3	4155.4	2830.1	1676.8	1294.9	1315.2	1380.9	1426.5	1474.5	1497.3	1484.6
27.5°	4575.3	4112.4	2455.8	1380.9	1219.1	1284.8	1340.5	1386.0	1401.2	1431.5	1451.7
30°	4679.0	3963.2	2119.4	1193.8	1181.1	1264.6	1305.1	1320.2	1360.7	1378.4	1378.4
32.5°	4762.4	3905.0	1762.8	1105.2	1176.1	1274.7	1279.8	1279.8	1284.8	1272.2	1267.1
35°	4934.4	3705.2	1444.2	1052.1	1173.5	1277.2	1289.9	1246.9	1130.5	1085.0	1072.4
37.5°	5146.9	3576.2	1208.9	1039.5	1191.2	1307.6	1327.8	1165.9	1014.2	940.9	928.2
40°	5404.8	3485.2	1054.7	1034.4	1231.7	1378.4	1317.7	1102.7	905.4	799.2	794.2
42.5°	5705.8	3401.7	951.0	1031.9	1282.3	1451.7	1307.6	1049.6	794.2	723.3	733.5
45°	5946.1	3356.2	880.2	1014.2	1300.0	1494.7	1315.2	956.0	748.6	703.1	708.2
47.5°	6133.2	3260.1	822.0	983.8	1297.5	1509.9	1246.9	918.1	725.9	738.5	751.2
50°	6138.3	3131.1	748.6	918.1	1259.5	1482.1	1168.5	882.7	720.8	773.9	799.2
52.5°	6070.0	2949.0	670.2	824.5	1171.0	1386.0	1097.7	867.5	698.1	693.0	723.3
55°	5827.2	2607.6	538.7	667.7	988.9	1143.2	1034.4	839.7	629.8	571.6	576.7
57.5°	4709.3	1869.1	397.1	478.0	700.6	837.2	933.3	827.0	566.5	485.6	488.1
60°	2916.1	1059.7	290.9	326.3	432.5	508.4	756.2	768.9	505.8	409.7	404.7
62.5°	1497.3	523.5	225.1	230.2	265.6	298.4	518.5	644.9	457.8	389.5	389.5
65°	500.8	258.0	197.3	177.0	177.0	184.6	313.6	447.7	387.0	326.3	326.3
67.5°	215.0	192.2	172.0	154.3	141.6	134.0	177.0	260.5	288.3	247.9	237.7
70°	166.9	161.9	149.2	129.0	111.3	101.2	103.7	134.0	164.4	159.3	154.3
72.5°	123.9	123.9	118.9	101.2	86.0	73.3	68.3	70.8	78.4	80.9	83.5
75°	86.0	88.5	88.5	78.4	63.2	53.1	45.5	37.9	30.4	25.3	22.8
77.5°	58.2	60.7	65.8	58.2	48.1	35.4	27.8	20.2	12.6	5.1	5.1
80°	50.6	58.2	63.2	58.2	50.6	37.9	27.8	15.2	7.6	0.0	0.0
82.5°	53.1	58.2	65.8	55.6	48.1	35.4	27.8	17.7	7.6	2.5	0.0
85°	12.6	12.6	15.2	17.7	22.8	25.3	20.2	12.6	7.6	2.5	0.0
87.5°	5.1	5.1	5.1	5.1	5.1	2.5	2.5	2.5	2.5	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)