

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: P458749

Luminaire Tested: **GALN-SA3A-735-U-AFL**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458749
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-SA3A-735-U-AFL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12842 lumens
Efficiency: N/A
Efficacy: 138.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

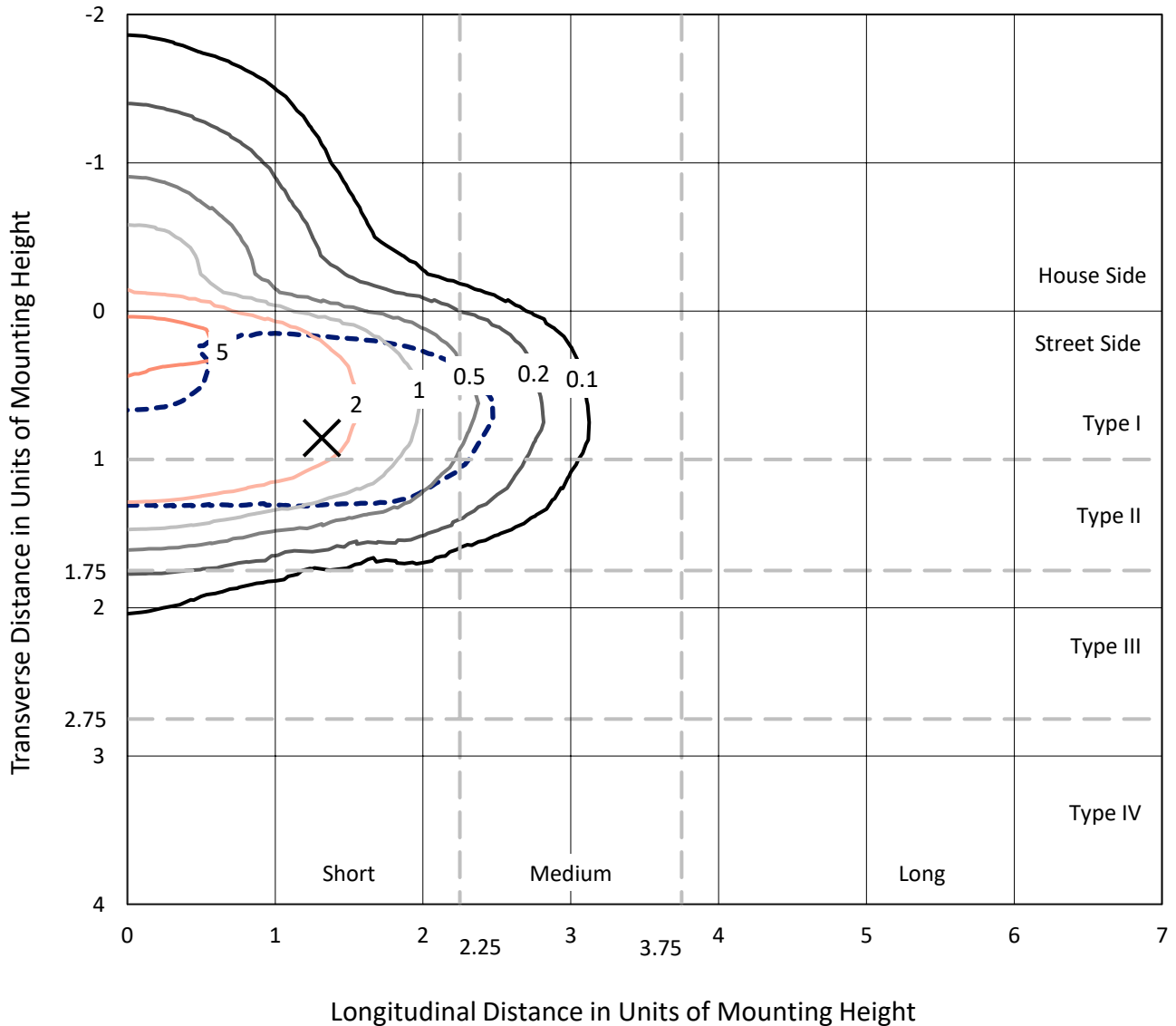
Input Watts (W): 93
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

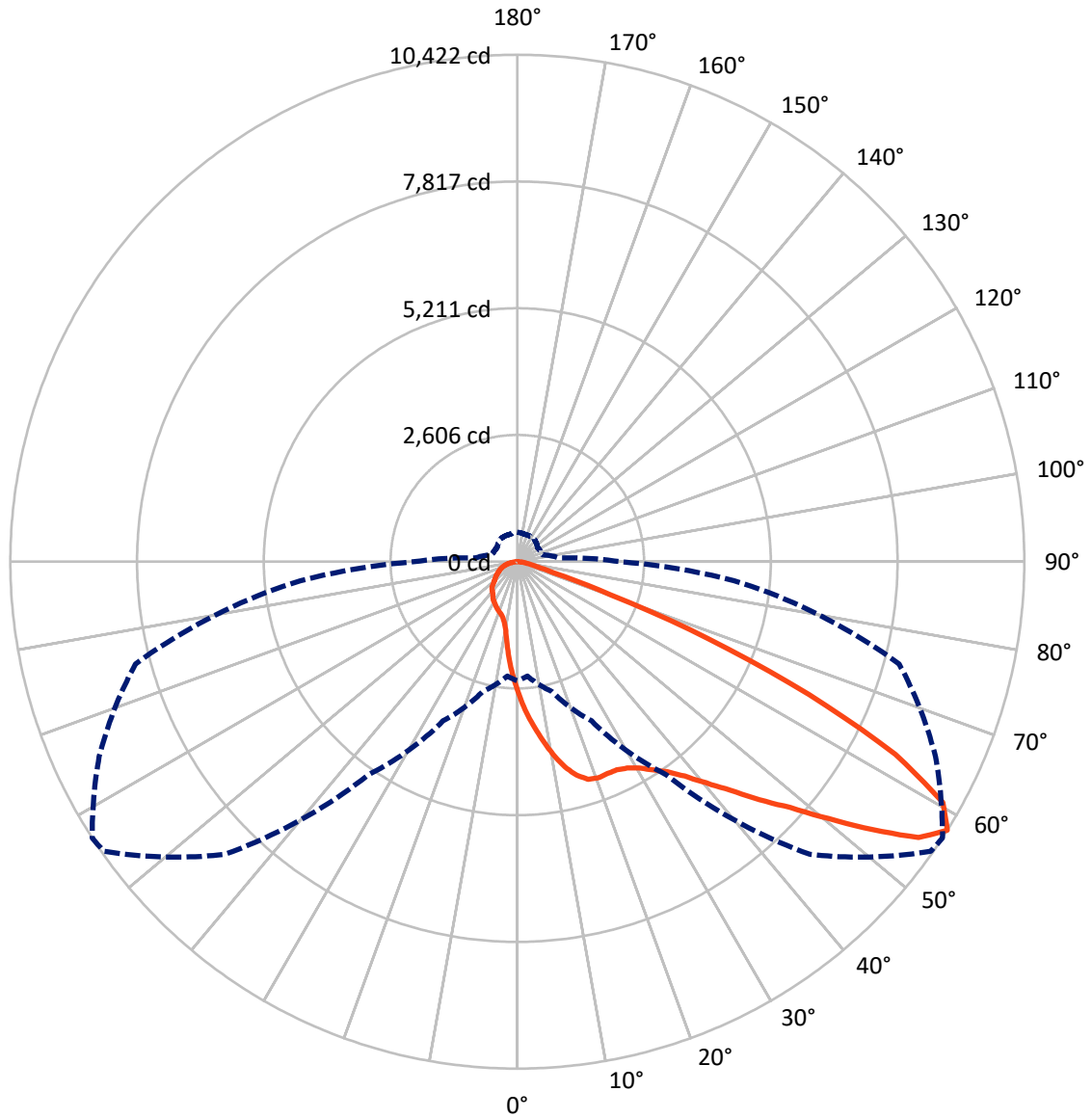
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.6 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
House Side	Lumens	1952.9	0.0	1952.9
	% Fixture	15.2	0.0	15.2
Street Side	Lumens	10889.1	0.0	10889.1
	% Fixture	84.8	0.0	84.8
Total	Lumens	12842.0	0.0	12842.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	259.3	2.0
10°-20°	764.2	6.0
20°-30°	1268.9	9.9
30°-40°	1911.4	14.9
40°-50°	2869.7	22.3
50°-60°	3216.6	25.0
60°-70°	1882.5	14.7
70°-80°	556.8	4.3
80°-90°	112.5	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°	12842.0	100.0
0°-180°	12842.0	100.0

Coefficient of Utilization



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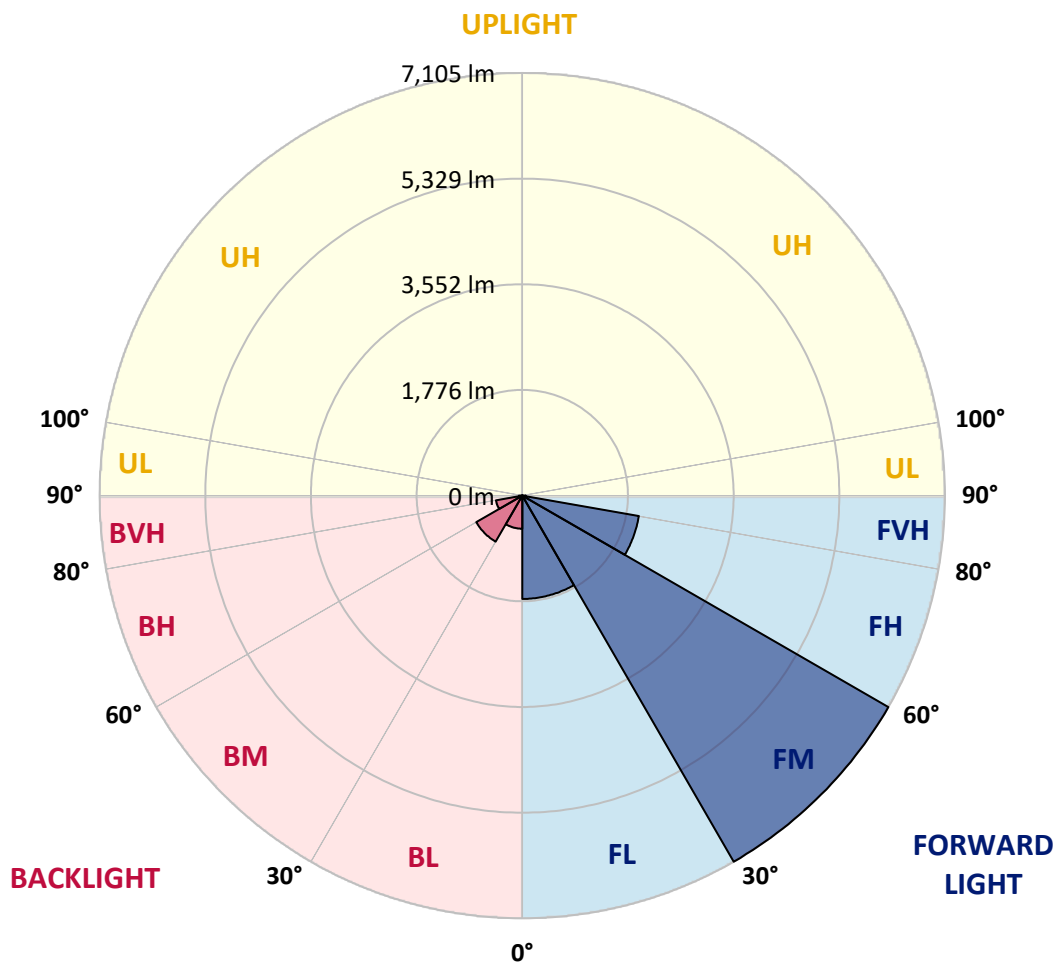
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1735.9	13.5			
FM (30°-60°)	7104.7	55.3			
FH (60°-80°)	1990.0	15.5			G2/5000
FVH (80°-90°)	58.4	0.5			G1/100
BL (0°-30°)	556.5	4.3	B2/1000		
BM (30°-60°)	893.0	7.0	B1/1000		
BH (60°-80°)	449.4	3.5	B1/500		G1/500
BVH (80°-90°)	54.2	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	2698.0	2698.0	2698.0	2698.0	2698.0	2698.0	2698.0	2698.0	2698.0	2698.0	2698.0
2.5°	3352.4	3315.9	3287.0	3261.7	3228.7	3139.4	3050.1	3048.7	2977.7	2868.1	2755.6
5°	3898.6	3849.4	3855.7	3777.0	3698.3	3568.9	3379.8	3370.0	3218.8	3013.6	2804.8
7.5°	4254.3	4255.0	4235.3	4190.3	4105.3	3958.4	3744.0	3695.5	3485.3	3173.9	2861.0
10°	4236.0	4255.0	4288.1	4326.7	4352.7	4280.3	4084.9	4025.8	3752.4	3367.9	2923.6
12.5°	3992.8	4022.3	4069.4	4166.4	4323.2	4442.7	4375.9	4328.1	4061.7	3561.2	2992.5
15°	3841.0	3858.5	3884.6	3949.9	4118.6	4404.7	4577.7	4552.4	4353.4	3779.8	3069.8
17.5°	3794.6	3812.1	3820.6	3860.7	3980.9	4274.0	4657.1	4702.1	4612.1	3980.9	3147.9
20°	3841.0	3849.4	3849.4	3873.3	3967.5	4197.4	4653.6	4744.3	4824.4	4222.0	3221.0
22.5°	3962.6	3966.1	3961.2	3969.6	4039.9	4218.5	4620.6	4733.0	4995.9	4426.5	3277.9
25°	4160.1	4165.7	4133.4	4113.7	4165.0	4311.2	4638.8	4742.2	5130.2	4622.0	3315.9
27.5°	4384.4	4391.4	4352.0	4306.3	4330.2	4425.8	4710.5	4803.3	5230.7	4814.6	3339.8
30°	4659.2	4662.0	4595.9	4541.1	4525.7	4596.6	4832.8	4919.3	5355.8	5041.6	3375.6
32.5°	4940.4	4961.5	4876.4	4799.1	4773.1	4794.9	5013.5	5097.2	5504.9	5285.5	3433.3
35°	5322.8	5326.3	5224.4	5130.2	5044.4	5072.6	5244.8	5305.2	5710.8	5567.4	3514.8
37.5°	5800.1	5832.5	5691.9	5516.1	5410.7	5369.9	5524.6	5590.6	5999.8	5913.3	3637.8
40°	6330.1	6342.1	6221.9	6112.2	5919.6	5801.5	5908.4	5980.1	6356.2	6325.9	3780.5
42.5°	6663.3	6689.4	6698.5	6687.3	6542.4	6344.2	6385.0	6418.7	6777.9	6713.3	3926.7
45°	6775.8	6814.5	6945.2	7222.2	7237.7	7042.2	6947.3	6979.7	7237.7	7104.1	4066.6
47.5°	6589.5	6655.6	6896.7	7464.7	7890.0	7904.8	7618.7	7547.7	7656.6	7428.2	4167.8
50°	6108.0	6122.1	6491.1	7313.6	8195.8	8729.3	8433.4	8301.2	8054.5	7667.9	4237.4
52.5°	5362.9	5379.0	5688.3	6611.3	8007.4	9305.8	9386.6	9150.4	8458.7	7854.2	4283.1
55°	3980.9	4074.4	4414.6	5306.6	7114.6	9251.6	10144.4	10010.1	8947.3	8001.8	4354.8
57.5°	2447.7	2361.9	2765.4	3610.4	5350.9	8507.9	10378.5	10422.1	9485.0	8125.5	4475.0
60°	1126.1	1143.0	1309.6	1862.1	3261.7	6655.6	9775.3	10050.9	9782.4	8121.3	4505.3
62.5°	776.1	760.6	718.4	817.5	1487.5	4209.3	8257.0	8723.7	9186.3	7868.9	4385.1
65°	693.8	678.4	596.8	569.4	683.3	1834.7	6002.6	6591.6	7734.7	7232.0	4085.6
67.5°	648.1	627.0	542.7	489.3	487.9	730.4	3539.4	4248.7	5736.8	6114.3	3540.1
70°	600.3	583.5	499.8	440.8	415.4	459.0	1555.6	2036.5	3725.0	4406.1	2757.7
72.5°	552.5	532.8	457.6	394.4	361.3	343.7	596.1	775.4	2104.7	2641.7	1690.6
75°	482.9	473.1	409.1	357.1	321.3	277.7	378.2	431.6	1006.6	1213.3	848.5
77.5°	422.5	411.9	363.4	312.1	286.1	225.6	268.5	293.1	424.6	492.1	383.1
80°	309.3	319.8	306.5	275.6	255.2	177.1	180.7	201.0	252.4	279.1	234.1
82.5°	196.1	215.8	236.2	212.3	193.3	139.9	125.1	132.9	172.2	182.8	104.0
85°	82.2	83.7	137.1	129.3	110.4	82.9	75.2	79.4	92.1	96.3	48.5
87.5°	31.6	30.9	48.5	45.0	34.4	23.9	23.9	26.7	36.6	33.7	15.5
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°	2698.0	2698.0	2698.0	2698.0	2698.0	2698.0	2698.0	2698.0	2698.0	2698.0	2698.0
2.5°	2707.1	2657.2	2558.1	2435.1	2345.1	2243.8	2154.6	2090.6	2066.7	2055.5	2034.4
5°	2705.0	2606.6	2401.3	2186.2	2013.3	1836.1	1686.4	1589.4	1581.0	1516.3	1510.0
7.5°	2705.7	2555.3	2228.4	1912.0	1648.4	1467.1	1343.4	1311.0	1272.4	1262.5	1267.4
10°	2707.8	2489.9	2042.8	1640.7	1385.5	1266.7	1220.3	1207.7	1209.1	1213.3	1214.0
12.5°	2710.6	2426.6	1850.2	1434.7	1237.9	1188.7	1183.8	1195.0	1207.0	1216.1	1218.2
15°	2714.1	2354.2	1662.5	1268.8	1164.1	1159.9	1176.1	1195.0	1211.9	1225.3	1227.4
17.5°	2709.9	2269.9	1505.0	1166.9	1123.3	1143.7	1170.4	1194.3	1209.8	1222.4	1223.9
20°	2700.1	2175.7	1353.2	1095.2	1098.0	1131.1	1159.9	1182.4	1199.2	1205.6	1210.5
22.5°	2662.1	2063.2	1221.0	1039.7	1067.8	1113.5	1147.9	1161.3	1142.3	1129.0	1132.5
25°	2597.4	1917.0	1098.0	994.7	1040.4	1088.9	1124.0	1091.7	1076.2	1070.6	1073.4
27.5°	2516.6	1756.7	1005.2	947.6	1005.2	1061.5	1051.6	1046.0	1039.0	1029.8	1031.9
30°	2429.4	1599.9	926.5	911.0	967.3	999.6	1003.8	1013.0	1005.2	991.2	996.8
32.5°	2348.6	1452.3	866.7	880.1	940.6	935.6	967.3	977.8	942.0	894.9	897.0
35°	2279.7	1315.2	821.8	849.9	894.9	897.0	928.6	892.1	853.4	830.9	832.3
37.5°	2227.7	1208.4	792.2	823.9	836.5	863.2	846.4	827.4	822.5	807.0	807.7
40°	2196.7	1114.9	773.3	803.5	801.4	819.7	765.5	784.5	791.5	786.6	787.3
42.5°	2165.8	1048.8	753.6	775.4	774.7	738.8	726.9	743.0	761.3	763.4	762.0
45°	2141.2	997.5	733.2	732.5	746.5	690.3	686.8	696.6	722.6	735.3	734.6
47.5°	2113.8	954.6	702.3	682.6	686.8	660.1	654.5	658.7	690.3	710.7	716.3
50°	2079.4	911.7	663.6	636.9	619.3	632.0	633.4	634.1	665.7	688.9	693.8
52.5°	2051.9	879.4	619.3	599.6	578.5	606.7	617.2	618.6	637.6	656.6	660.1
55°	2068.1	861.1	575.7	561.7	542.7	580.6	601.0	603.8	608.1	622.1	624.2
57.5°	2116.6	865.3	540.6	522.3	508.2	549.7	584.2	586.3	583.5	600.3	603.1
60°	2131.4	863.2	514.6	478.7	470.3	516.7	559.6	563.8	563.1	587.7	592.6
62.5°	2069.5	836.5	488.6	442.2	436.5	482.9	525.1	542.0	545.5	580.6	587.0
65°	1924.0	781.7	454.1	403.5	403.5	447.1	492.1	515.3	525.1	572.2	579.2
67.5°	1732.1	717.0	419.0	370.5	369.1	412.6	456.9	480.8	496.3	560.3	564.5
70°	1437.6	629.9	375.4	334.6	334.6	374.0	414.0	442.9	465.4	537.8	537.8
72.5°	984.8	523.7	322.7	293.8	294.5	331.1	371.9	404.2	430.9	492.8	494.2
75°	622.8	409.1	265.0	250.3	253.1	287.5	329.7	363.4	416.9	487.2	489.3
77.5°	331.1	287.5	210.9	207.4	210.9	242.5	289.6	336.0	418.3	422.5	415.4
80°	214.4	203.9	166.6	159.6	161.0	195.4	258.0	319.1	336.0	340.2	324.8
82.5°	116.7	129.3	118.1	111.1	111.1	152.5	220.0	253.8	241.1	200.3	191.2
85°	49.9	60.5	61.2	53.4	51.3	94.2	147.6	138.5	128.6	123.0	121.6
87.5°	14.1	19.7	19.7	14.8	11.2	26.0	29.5	8.4	0.0	0.7	1.4
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)