

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: P650844

Luminaire Tested: **GALN-SA4C-840-U-SL2-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P650844
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-17)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA4C-840-U-SL2-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
SPILL LIGHT ELIMINATOR OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13651.9 lumens
Efficiency: N/A
Efficacy: 64.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

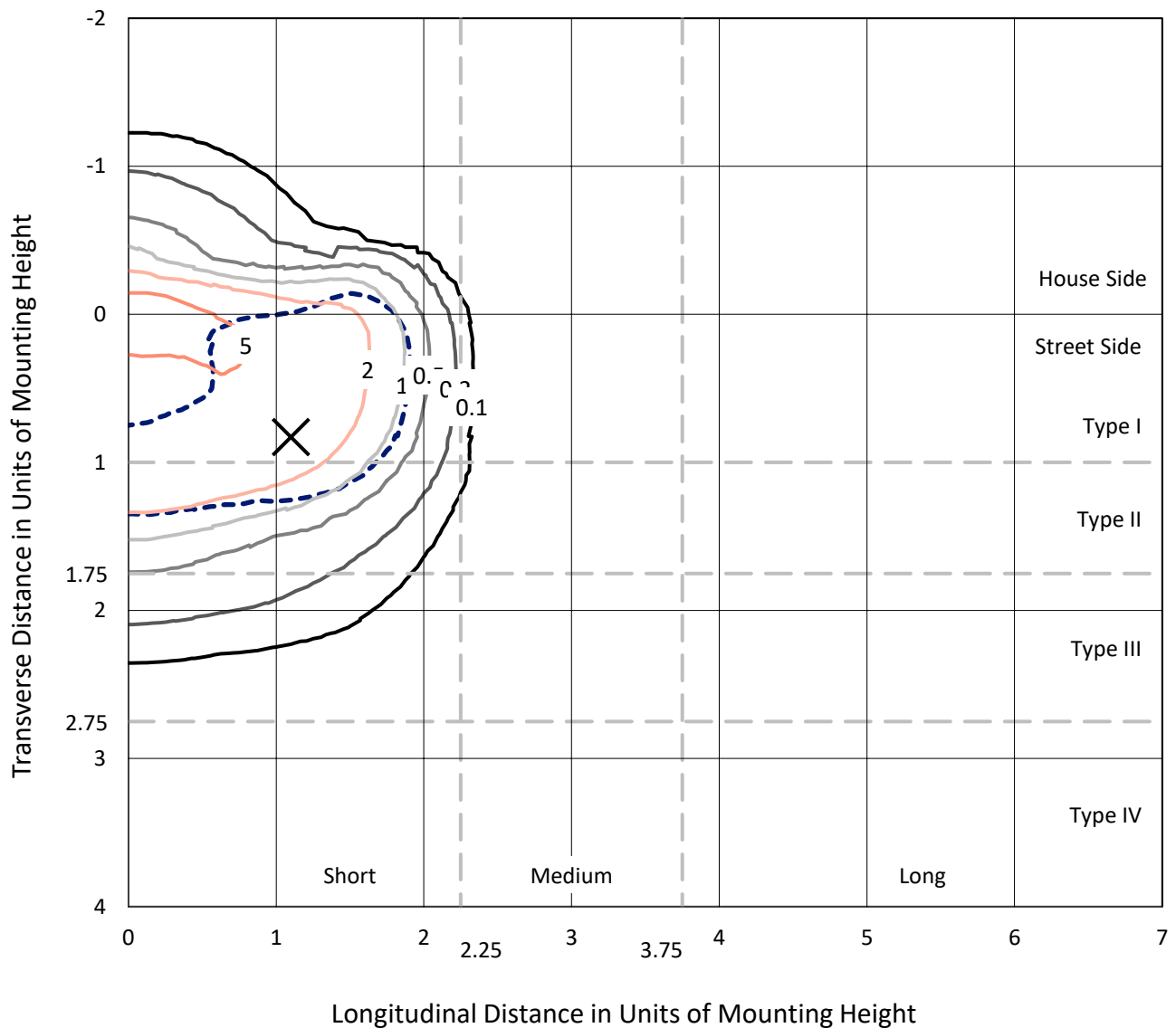
Input Watts (W): 213
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P650844
 CATALOG NUMBER: GALN-SA4C-840-U-SL2-GRSBK

Iso-Footcandle Lines of Horizontal Illumination

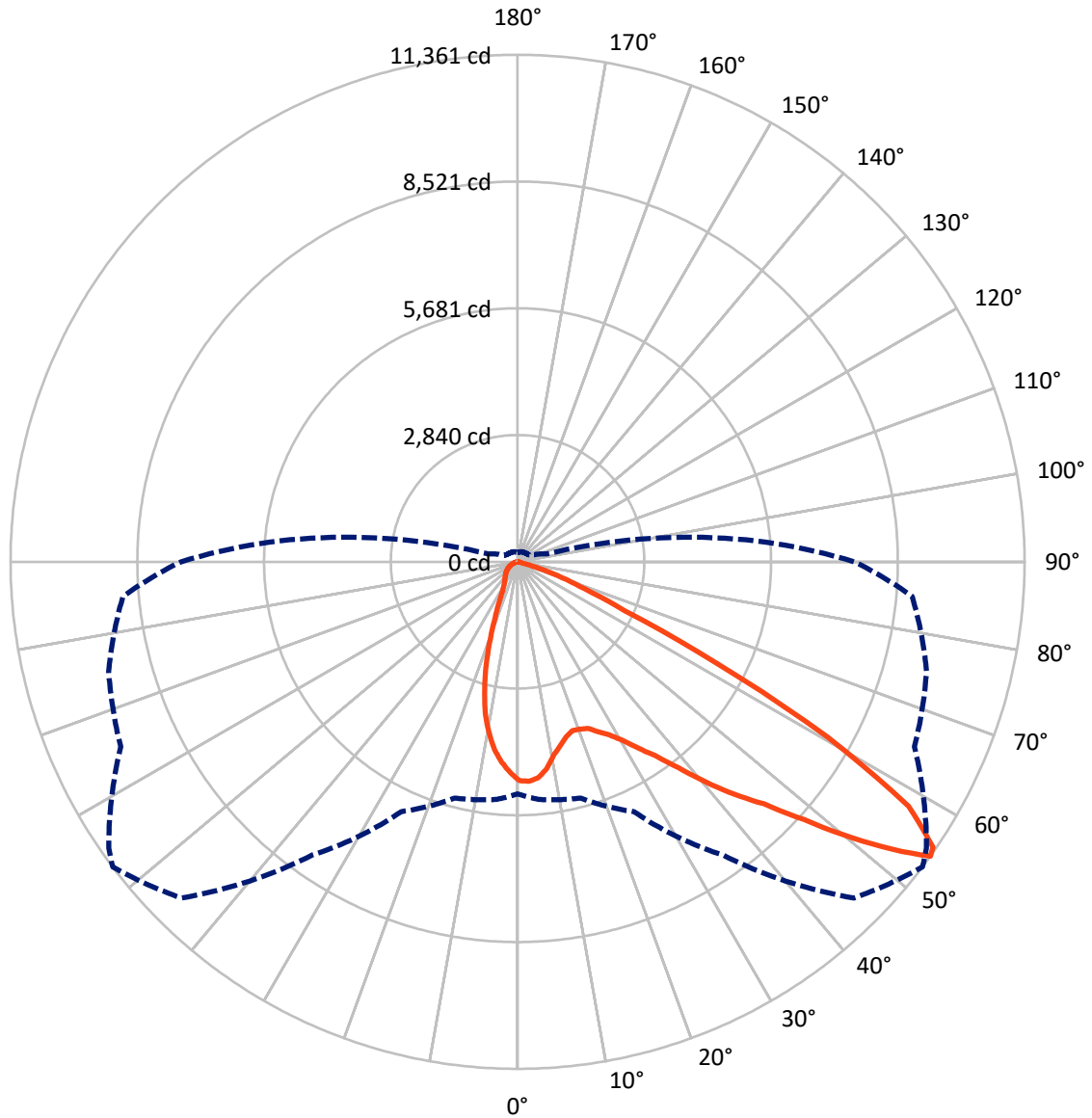
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.8 fc
 Type II - Short - N/A

REPORT NUMBER: P650844
CATALOG NUMBER: GALN-SA4C-840-U-SL2-GRSBK

Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral - - - Horizontal Cone Through 54-Deg Vertical

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 CATALOG NUMBER: GALN-SA4C-840-U-SL2-GRSBK

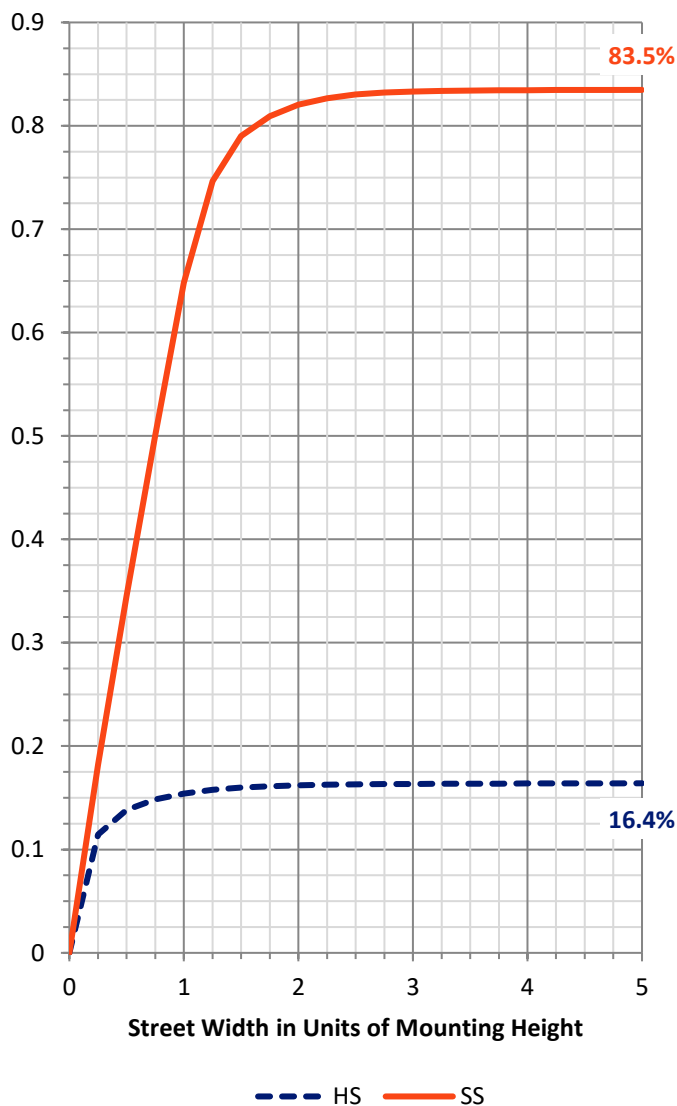
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2258.7	0.0	2258.7
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	11393.2	0.0	11393.2
	% Fixture	83.5	0.0	83.5
Total	Lumens	13651.9	0.0	13651.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	420.7	3.1
10°-20°	964.6	7.1
20°-30°	1370.9	10.0
30°-40°	2115.6	15.5
40°-50°	3317.0	24.3
50°-60°	3853.2	28.2
60°-70°	1456.0	10.7
70°-80°	138.5	1.0
80°-90°	15.6	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°	13651.9	100.0
0°-180°	13651.9	100.0

Coefficient of Utilization



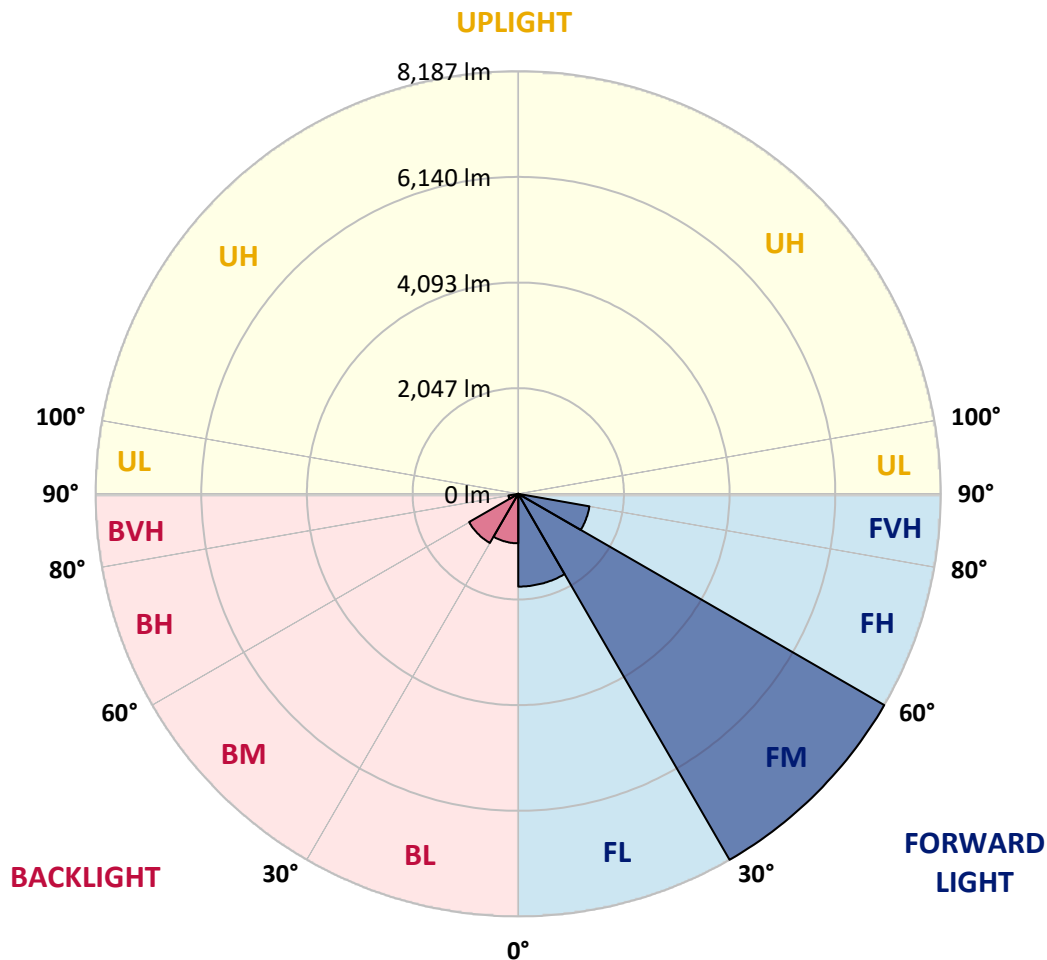
REPORT NUMBER: P650844
 CATALOG NUMBER: GALN-SA4C-840-U-SL2-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1797.6	13.2			
FM (30°-60°)	8186.6	60.0			
FH (60°-80°)	1400.9	10.3			G1/1800
FVH (80°-90°)	8.0	0.1			G0/10
BL (0°-30°)	958.5	7.0	B2/1000		
BM (30°-60°)	1099.2	8.1	B2/2500		
BH (60°-80°)	193.5	1.4	B1/500		G1/500
BVH (80°-90°)	7.5	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





REPORT NUMBER: P650844

CATALOG NUMBER: GALN-SA4C-840-U-SL2-GRSBK

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	4903.5	4903.5	4903.5	4903.5	4903.5	4903.5	4903.5	4903.5	4903.5	4903.5	4903.5
2.5°	4878.1	4834.9	4878.1	4883.2	4913.7	4941.7	4923.9	4964.6	4941.7	4916.2	4908.7
5°	4483.9	4542.4	4544.9	4636.5	4616.2	4784.0	4857.8	4837.4	4962.1	4954.4	4936.6
7.5°	4130.4	4107.5	4138.0	4244.9	4379.6	4572.9	4679.7	4677.2	4855.3	4982.4	4969.6
10°	3802.2	3799.7	3863.3	3947.2	4061.7	4265.2	4412.7	4486.5	4763.7	4956.9	4984.9
12.5°	3581.0	3570.8	3639.5	3708.2	3888.8	4046.5	4234.7	4270.3	4588.2	4868.0	4913.7
15°	3436.1	3458.9	3464.0	3596.3	3710.7	3919.3	4066.8	4140.6	4506.8	4796.7	4972.2
17.5°	3410.6	3441.1	3443.6	3553.1	3675.1	3850.6	3980.3	4079.5	4438.1	4832.3	4974.8
20°	3461.5	3443.6	3458.9	3527.6	3647.2	3815.0	4003.2	4036.3	4415.2	4850.1	5002.8
22.5°	3606.5	3601.3	3563.2	3619.2	3703.1	3878.6	4056.6	4107.5	4481.4	4941.7	5025.6
25°	3766.7	3794.7	3759.0	3751.4	3809.9	3982.9	4219.4	4285.5	4702.6	5107.1	5096.9
27.5°	4066.8	4038.8	4038.8	4003.2	3987.9	4071.9	4394.9	4504.2	4949.4	5320.7	5178.2
30°	4354.2	4384.7	4361.8	4374.5	4272.8	4265.2	4644.2	4778.9	5386.8	5646.2	5351.2
32.5°	4809.4	4768.7	4806.9	4773.9	4639.0	4501.7	4982.4	5122.3	5915.8	6020.0	5610.6
35°	5188.4	5170.6	5333.4	5328.3	5109.6	4974.8	5341.0	5549.6	6284.5	6467.7	5915.8
37.5°	5727.6	5694.5	5880.2	5969.2	5773.4	5572.5	5854.8	6096.4	6627.9	6826.3	6228.6
40°	6282.0	6365.9	6615.2	6762.7	6554.2	6287.1	6482.9	6556.7	6856.8	7060.3	6442.2
42.5°	6984.0	7106.1	7360.4	7487.6	7469.8	7179.9	7121.3	7118.8	7022.2	6994.2	6599.9
45°	7658.0	7612.2	8003.9	8281.1	8504.9	8421.0	7736.9	7660.5	7284.2	7093.3	6640.6
47.5°	7953.0	7937.8	8204.8	8698.2	9461.2	9565.4	8632.1	8337.1	7726.7	7510.5	6861.9
50°	7571.5	7650.3	7914.8	8461.6	9631.6	10427.6	9730.8	9334.0	8243.0	8019.1	7385.8
52.5°	6325.2	6378.6	6630.4	7324.8	9051.8	10936.4	10783.7	10554.8	9191.6	8820.3	8298.9
54°	5201.1	5343.5	5480.9	6177.7	8019.1	10654.0	11361.1	11185.6	9809.7	9486.6	8873.7
55°	4529.7	4613.6	4712.8	5407.1	7304.4	10175.8	11295.0	11310.2	10224.2	9695.2	9260.3
57.5°	3308.9	3367.4	3265.6	3573.4	5015.5	8263.3	10331.0	10743.0	10783.7	10008.1	9496.8
60°	2528.0	2553.5	2439.1	2487.3	3118.1	5671.6	7991.2	8487.1	9728.3	8746.6	8044.6
62.5°	1960.9	1966.0	1963.5	2047.4	2149.1	3336.8	4997.6	5437.7	6706.8	6210.8	5463.1
65°	1444.6	1421.7	1462.4	1716.7	1833.7	2098.2	2632.3	2952.8	3644.6	3077.5	2200.0
67.5°	935.9	943.6	984.3	1276.7	1571.7	1609.9	1620.1	1594.7	1597.2	880.0	551.9
70°	562.0	574.8	562.0	722.3	1124.2	1154.7	1055.5	1030.1	803.7	208.6	206.0
72.5°	333.2	315.4	282.3	310.3	467.9	559.5	503.6	501.1	315.4	122.1	122.1
75°	139.9	127.2	104.3	94.1	124.6	119.5	119.5	106.8	83.9	81.4	76.3
77.5°	28.0	28.0	20.4	22.9	30.5	35.6	43.2	43.2	50.9	50.9	48.4
80°	0.0	2.5	7.7	15.2	22.9	33.1	38.2	38.2	43.2	43.2	35.6
82.5°	0.0	2.5	7.7	15.2	20.4	30.5	38.2	38.2	43.2	45.8	38.2
85°	0.0	2.5	7.7	12.7	20.4	25.4	25.4	22.9	17.8	15.2	10.2
87.5°	0.0	0.0	2.5	5.0	2.5	5.0	5.0	5.0	5.0	5.0	5.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P650844

CATALOG NUMBER: GALN-SA4C-840-U-SL2-GRSBK

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4903.5	4903.5	4903.5	4903.5	4903.5	4903.5	4903.5	4903.5	4903.5	4903.5	4903.5
2.5°	4926.4	4923.9	4862.8	4763.7	4740.8	4656.9	4646.7	4595.8	4623.8	4529.7	4519.5
5°	4885.8	4855.3	4781.5	4717.9	4532.2	4399.9	4295.7	4168.5	4094.7	4107.5	4059.2
7.5°	4944.2	4865.4	4735.7	4514.4	4288.1	4056.6	3932.0	3672.6	3578.5	3438.6	3418.2
10°	4883.2	4824.7	4623.8	4257.6	3944.7	3611.5	3319.1	3031.6	2812.9	2718.8	2698.5
12.5°	4878.1	4776.4	4440.6	4033.8	3581.0	3102.9	2678.2	2319.6	2103.3	1981.2	1953.3
15°	4799.3	4677.2	4234.7	3687.9	3062.2	2467.1	2004.2	1658.3	1492.9	1421.7	1442.1
17.5°	4806.9	4623.8	4028.6	3321.6	2551.0	1810.8	1368.3	1190.3	1147.0	1164.9	1164.9
20°	4799.3	4504.2	3779.4	2899.4	1953.3	1256.4	1004.7	941.0	969.0	1024.9	1012.2
22.5°	4758.5	4448.3	3550.5	2454.3	1437.0	930.9	806.3	808.8	852.0	920.7	935.9
25°	4789.1	4323.7	3260.6	2004.2	1047.9	742.7	699.4	717.2	763.0	813.8	824.0
27.5°	4766.2	4234.7	2957.9	1556.5	765.6	638.4	635.8	656.1	676.5	714.7	714.7
30°	4791.7	4153.3	2660.3	1157.2	630.8	585.0	574.8	590.0	610.4	618.1	615.5
32.5°	4885.8	4092.2	2317.0	864.7	557.0	534.1	534.1	534.1	531.6	541.8	544.3
35°	5091.8	4102.4	2014.4	668.9	508.6	490.9	483.2	473.1	467.9	473.1	475.6
37.5°	5315.5	4097.4	1701.5	569.7	473.1	457.8	440.0	424.7	422.2	427.3	419.7
40°	5414.8	4145.6	1411.5	511.2	440.0	422.2	394.2	381.5	384.1	389.1	384.1
42.5°	5549.6	4160.9	1223.3	465.4	409.5	381.5	363.7	348.4	345.9	353.6	350.9
45°	5547.0	4074.4	1024.9	440.0	381.5	350.9	328.1	315.4	315.4	320.4	323.0
47.5°	5709.8	4061.7	880.0	417.1	361.1	330.6	302.7	292.5	290.0	290.0	284.8
50°	6088.8	4239.7	768.1	391.7	335.7	307.7	284.8	272.1	262.0	256.8	254.3
52.5°	6828.8	4794.2	681.6	361.1	307.7	284.8	264.5	254.3	241.6	228.9	226.4
54°	7546.0	5366.4	676.5	335.7	284.8	269.6	251.8	246.7	231.4	213.6	208.6
55°	7869.1	5699.6	694.3	315.4	269.6	259.4	244.1	239.1	223.8	203.4	200.9
57.5°	8136.2	5829.3	684.2	262.0	244.1	241.6	228.9	221.3	203.4	175.5	170.4
60°	6549.1	4407.6	490.9	231.4	223.8	218.7	208.6	203.4	180.6	150.0	147.5
62.5°	4138.0	2535.7	312.9	203.4	195.9	188.2	175.5	170.4	150.0	119.5	111.9
65°	1762.6	1050.4	211.1	180.6	167.9	155.2	145.0	137.3	119.5	89.0	86.5
67.5°	457.8	373.9	175.5	157.7	139.9	122.1	114.5	101.8	81.4	61.1	58.5
70°	206.0	188.2	147.5	132.3	111.9	94.1	83.9	71.2	53.4	40.7	38.2
72.5°	122.1	119.5	111.9	99.2	83.9	71.2	61.1	48.4	35.6	22.9	22.9
75°	76.3	73.8	76.3	68.7	58.5	53.4	45.8	33.1	20.4	10.2	10.2
77.5°	45.8	45.8	45.8	43.2	40.7	40.7	33.1	20.4	10.2	2.5	2.5
80°	35.6	35.6	38.2	35.6	35.6	35.6	28.0	15.2	5.0	0.0	0.0
82.5°	35.6	38.2	43.2	40.7	35.6	30.5	25.4	15.2	5.0	0.0	0.0
85°	10.2	7.7	12.7	17.8	25.4	22.9	17.8	12.7	5.0	0.0	0.0
87.5°	5.0	5.0	5.0	5.0	2.5	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)