

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: P648665

Luminaire Tested: **GALN-SA9B-835-U-T2-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P648665
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-11)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA9B-835-U-T2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30194.8 lumens
Efficiency: N/A
Efficacy: 83.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G4

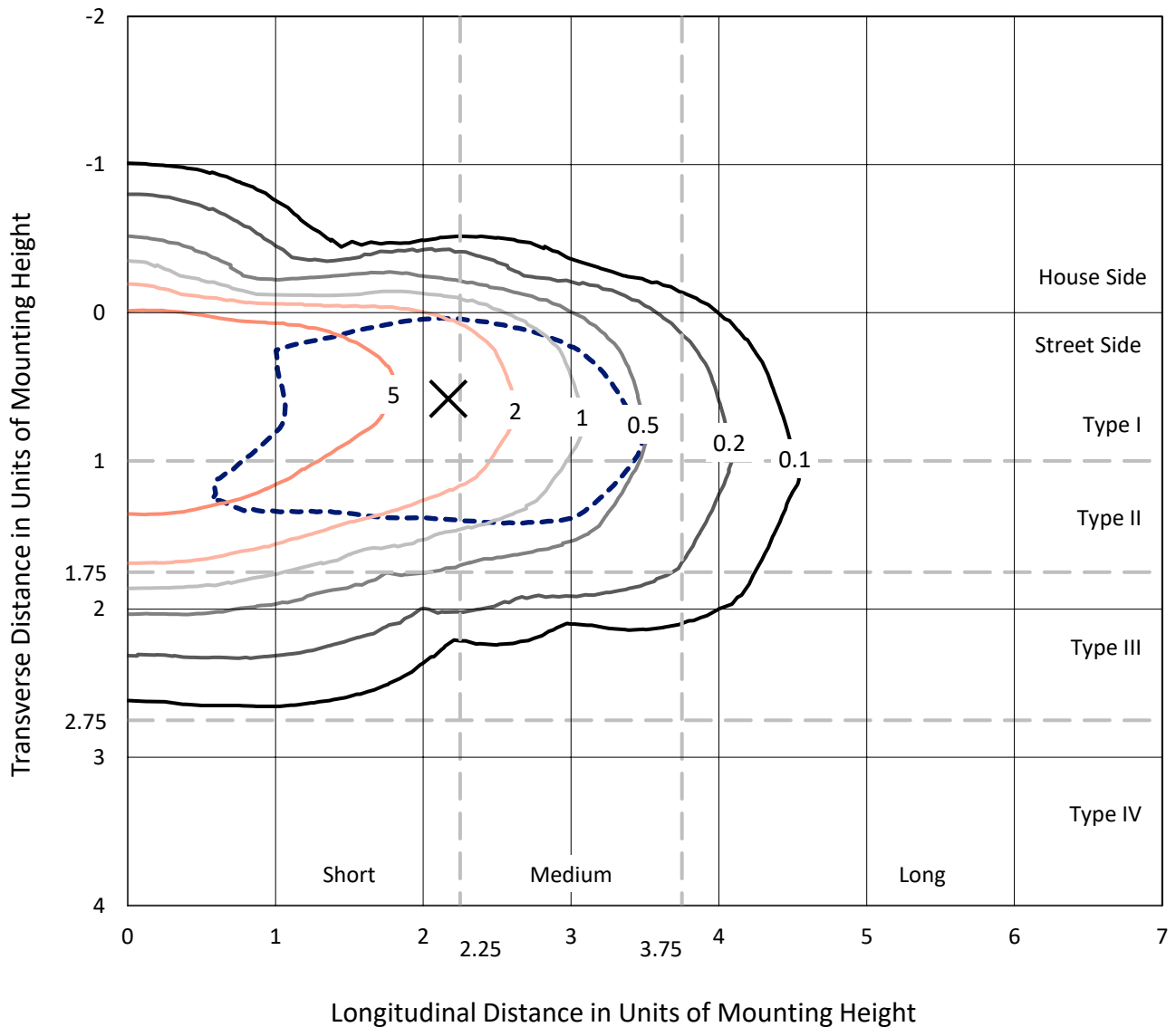
Input Watts (W): 364
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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 CATALOG NUMBER: GALN-SA9B-835-U-T2-HSS

Iso-Footcandle Lines of Horizontal Illumination

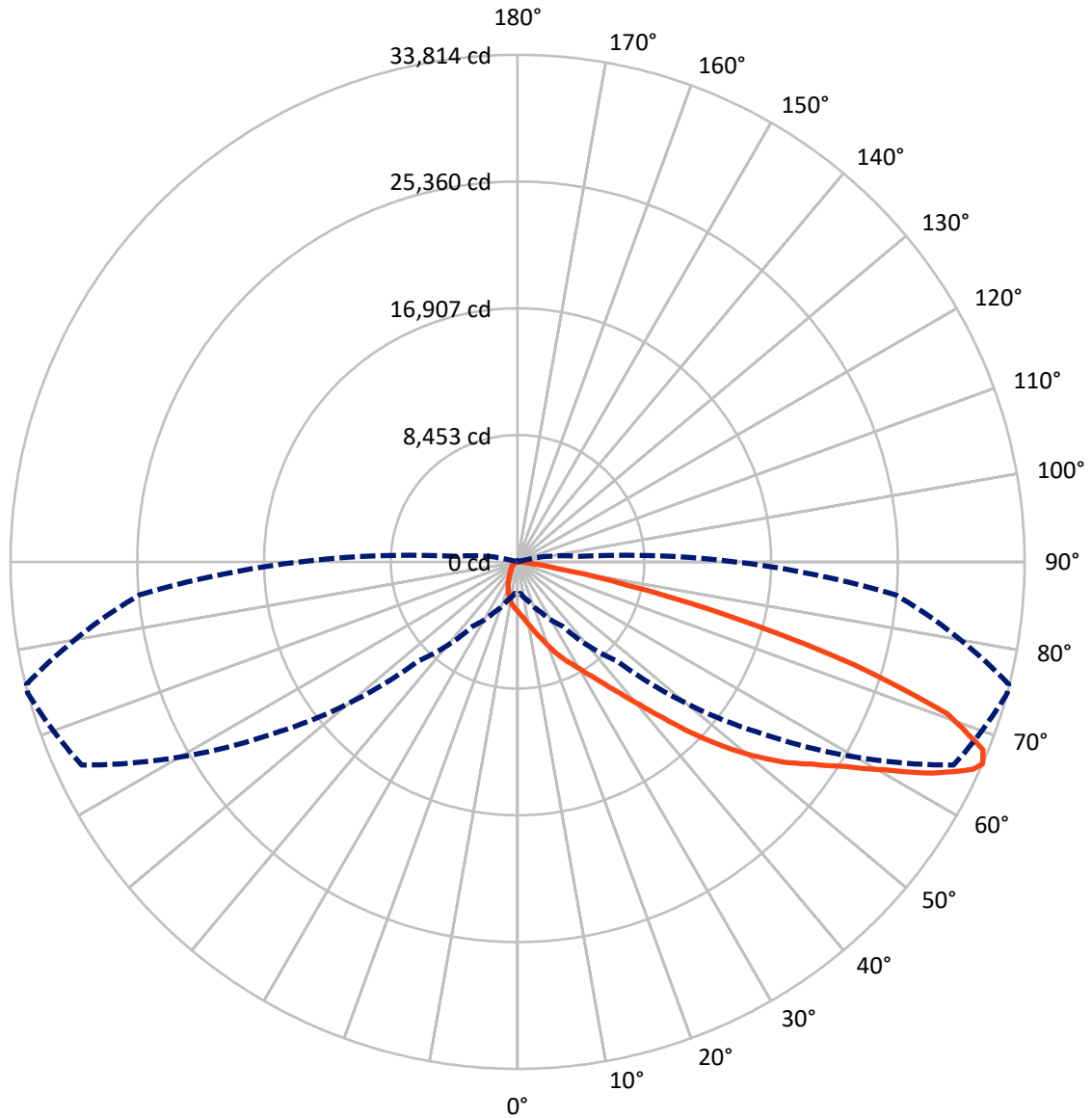
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9 fc
 Type II - Short - N/A

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CATALOG NUMBER: GALN-SA9B-835-U-T2-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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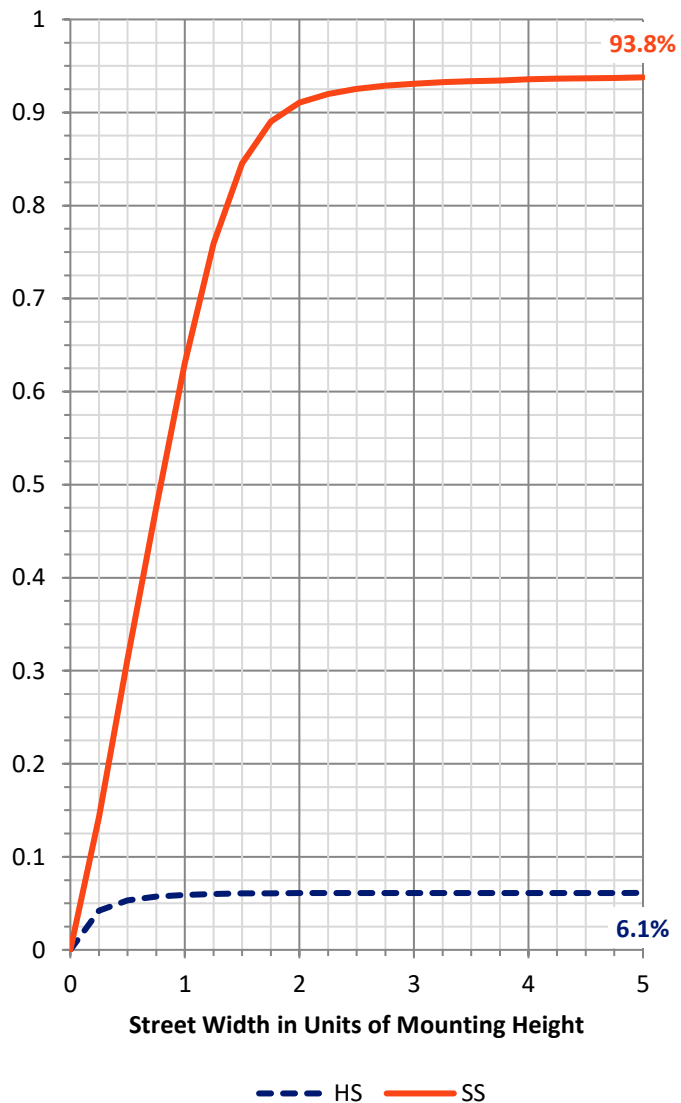
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1864.1	0.0	1864.1
	% Fixture	6.2	0.0	6.2
Street Side	Lumens	28330.7	0.0	28330.7
	% Fixture	93.8	0.0	93.8
Total	Lumens	30194.8	0.0	30194.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	318.5	1.1
10°-20°	937.3	3.1
20°-30°	1618.6	5.4
30°-40°	2919.6	9.7
40°-50°	5274.3	17.5
50°-60°	8222.7	27.2
60°-70°	7811.2	25.9
70°-80°	2927.5	9.7
80°-90°	165.2	0.5
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°	30194.8	100.0
0°-180°	30194.8	100.0

Coefficient of Utilization



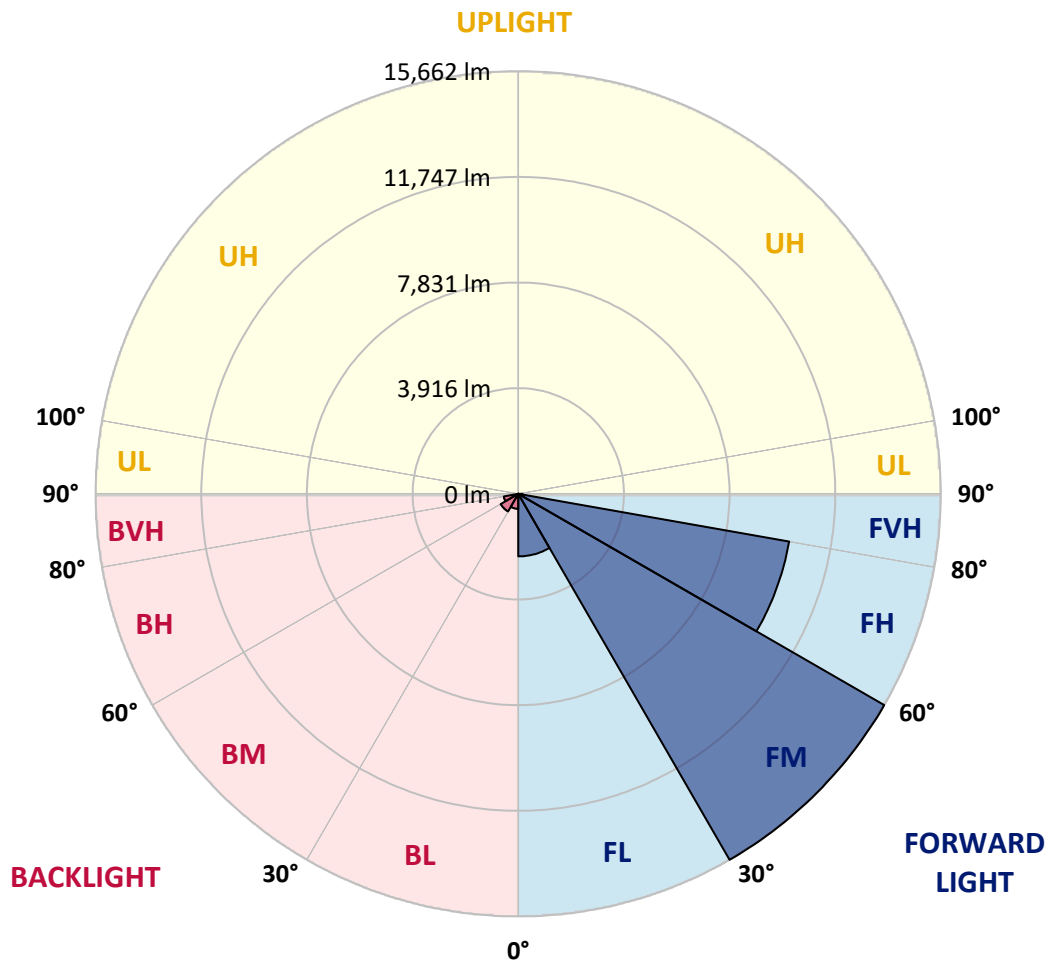
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2317.7	7.7			
FM (30°-60°)	15662.0	51.9			
FH (60°-80°)	10194.3	33.8			G4/12000
FVH (80°-90°)	156.6	0.5			G2/225
BL (0°-30°)	556.7	1.8	B2/1000		
BM (30°-60°)	754.5	2.5	B1/1000		
BH (60°-80°)	544.3	1.8	B2/1000		G2/1000
BVH (80°-90°)	8.5	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	3302.1	3302.1	3302.1	3302.1	3302.1	3302.1	3302.1	3302.1	3302.1	3302.1	3302.1
2.5°	3945.1	3896.0	3911.6	3889.3	3838.0	3762.0	3695.1	3599.1	3503.1	3487.4	3380.2
5°	4465.3	4451.9	4434.1	4369.3	4333.6	4217.5	4079.0	3913.8	3715.2	3679.4	3485.2
7.5°	4820.3	4813.6	4822.6	4789.1	4757.8	4652.9	4505.5	4280.0	3971.9	3951.8	3628.1
10°	4936.4	4954.3	4987.8	5041.3	5090.4	5057.0	4945.3	4664.0	4304.5	4246.5	3791.1
12.5°	4869.4	4889.5	4969.9	5112.8	5271.3	5362.8	5318.2	5112.8	4657.4	4610.5	3974.1
15°	4697.5	4722.0	4836.0	5057.0	5340.5	5599.5	5711.1	5563.8	5068.1	4992.3	4195.2
17.5°	4443.0	4478.7	4641.7	4934.2	5322.7	5769.2	6084.0	6034.9	5505.7	5434.3	4436.3
20°	4251.0	4277.8	4416.2	4751.1	5246.7	5862.9	6439.0	6577.4	6046.0	5923.2	4719.8
22.5°	4378.2	4387.1	4434.1	4635.0	5110.6	5887.5	6751.6	7142.3	6619.9	6510.4	5014.6
25°	5001.2	4911.8	4864.9	4820.3	5081.5	5865.2	7035.1	7731.7	7191.4	7075.3	5307.0
27.5°	5983.5	5943.4	5706.7	5389.6	5329.3	5894.2	7222.6	8289.9	7729.5	7604.4	5592.8
30°	7053.0	6983.7	6838.6	6374.2	5907.6	6099.6	7358.9	8832.4	8365.8	8200.6	5854.0
32.5°	8035.3	8080.0	7863.4	7385.6	6845.3	6537.2	7535.2	9424.0	9095.9	8890.4	6157.7
35°	9180.7	9270.0	8937.3	8479.7	7847.8	7327.5	7879.0	10091.6	10022.4	9763.4	6626.5
37.5°	10343.9	10397.5	10194.3	9551.3	8981.9	8332.3	8526.6	10915.5	11163.3	10942.3	7186.9
40°	11321.8	11395.5	11245.9	10674.3	10067.0	9495.5	9466.5	11813.0	12520.7	12293.0	8021.9
42.5°	12069.8	12125.5	12130.0	11725.9	11178.9	10920.0	10665.4	12958.3	14222.0	13958.6	8991.0
45°	13014.2	13094.6	13047.7	12773.1	12364.4	12317.6	12185.8	14342.6	16258.2	15925.6	10247.9
47.5°	14474.3	14527.9	14411.8	14088.0	13672.8	13746.5	13668.4	15894.3	18334.6	18048.9	11549.6
50°	15488.0	15577.2	15742.4	15872.0	15570.6	15298.2	15066.0	17343.3	20306.0	20049.3	12880.2
52.5°	15476.8	15624.1	16146.6	16798.6	17457.1	17374.5	16707.0	18944.1	22188.2	21871.1	14130.5
55°	14434.1	14719.9	15488.0	16644.5	18468.5	19377.2	19073.6	20797.2	23813.5	23599.2	15579.5
57.5°	12281.8	12456.0	13523.2	15139.7	17903.7	20319.4	21815.3	23309.0	25762.7	25662.2	17830.0
60°	8260.8	8339.0	9712.1	11710.3	15242.3	19379.5	23824.7	26347.6	28162.8	28113.6	20457.8
62.5°	4733.2	4766.7	5762.5	7448.1	10846.3	16423.4	23994.4	30096.2	31040.6	31067.5	23498.8
65°	2547.5	2565.3	3369.1	4371.6	6599.8	11705.8	21576.4	32150.3	33367.1	33418.4	25383.1
66°	2199.1	2114.3	2681.5	3726.3	5251.2	9316.9	20047.1	32076.6	33813.6	33757.8	25316.1
67.5°	1672.3	1748.2	2141.1	2864.5	3891.5	6624.3	16550.7	30649.9	33474.3	33300.1	24286.9
70°	1196.7	1228.0	1524.9	2042.8	2650.1	3634.8	10576.1	25456.8	30424.5	30190.1	21158.9
72.5°	772.5	806.0	1080.6	1478.0	1915.6	1984.8	5921.0	18392.7	23456.3	23422.8	15934.5
75°	551.5	582.7	714.5	1058.3	1440.1	1228.0	2851.1	12395.8	14911.9	14811.5	9857.2
77.5°	399.6	415.3	477.8	692.1	1029.3	879.7	1321.7	6619.9	7423.6	7774.1	4355.9
80°	230.0	243.4	332.7	422.0	696.6	600.6	631.9	2656.9	2739.5	2607.8	1362.0
82.5°	113.8	129.5	198.7	288.0	435.3	404.1	290.3	799.3	843.9	821.6	343.8
85°	26.8	33.5	111.7	189.8	212.1	180.9	140.6	234.4	290.3	283.5	131.7
87.5°	2.3	4.5	40.2	33.5	35.7	60.3	49.1	60.3	93.8	87.1	46.9
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°	3302.1	3302.1	3302.1	3302.1	3302.1	3302.1	3302.1	3302.1	3302.1	3302.1	3302.1
2.5°	3331.1	3288.7	3165.9	3045.3	2944.9	2839.9	2743.9	2688.1	2665.8	2641.2	2652.4
5°	3378.0	3275.3	3027.5	2813.2	2603.3	2424.6	2281.7	2190.2	2145.6	2138.9	2127.7
7.5°	3440.5	3264.2	2880.1	2545.2	2270.6	2071.9	1909.0	1777.2	1737.0	1701.3	1672.3
10°	3516.5	3244.0	2697.0	2263.9	1971.4	1721.3	1507.0	1350.8	1270.4	1248.0	1263.7
12.5°	3596.8	3206.1	2505.1	2004.9	1667.8	1348.6	1149.8	1071.7	1049.4	1040.5	1042.6
15°	3677.2	3159.2	2304.1	1754.9	1328.4	1076.2	984.6	964.5	955.6	951.1	946.6
17.5°	3750.9	3083.3	2078.6	1511.5	1076.2	919.9	886.4	868.5	850.7	843.9	832.8
20°	3838.0	2996.2	1875.4	1239.1	910.9	832.8	792.6	759.1	732.3	714.5	712.2
22.5°	3920.6	2884.6	1663.3	1027.1	830.5	747.9	683.2	647.5	616.2	593.9	600.6
25°	3965.2	2748.4	1473.5	895.3	756.8	663.1	591.6	547.0	513.5	502.4	500.1
27.5°	3965.2	2580.9	1288.3	819.4	689.9	587.2	513.5	471.1	448.7	433.2	435.3
30°	3933.9	2395.7	1116.3	761.3	631.9	520.2	451.0	413.0	395.2	384.0	381.8
32.5°	3909.4	2219.3	969.0	705.5	571.6	462.1	401.9	372.9	355.0	343.8	343.8
35°	3947.3	2067.4	855.1	649.7	515.8	417.5	363.9	337.2	319.3	310.3	308.1
37.5°	4047.8	1929.0	768.0	589.4	464.4	379.5	337.2	305.8	288.0	276.9	272.4
40°	4295.6	1850.9	703.3	533.6	415.3	348.3	305.8	276.9	254.6	243.4	241.2
42.5°	4693.1	1853.1	640.8	482.2	377.3	321.5	279.1	245.6	221.0	209.8	207.7
45°	5291.4	1937.9	591.6	433.2	343.8	292.5	250.1	214.3	192.0	180.9	180.9
47.5°	6008.1	2103.1	549.2	390.7	312.6	265.7	221.0	185.3	163.0	154.0	154.0
50°	6785.1	2317.5	506.8	346.1	285.8	236.7	189.8	160.7	142.9	136.2	136.2
52.5°	7577.6	2576.5	464.4	310.3	256.7	205.4	163.0	142.9	127.2	122.8	120.6
55°	8618.1	2906.9	419.8	272.4	225.5	176.4	145.1	125.0	107.2	100.5	98.3
57.5°	10218.9	3404.8	370.6	238.9	185.3	147.4	125.0	104.9	84.9	73.7	71.4
60°	12150.1	4012.1	319.3	209.8	149.6	120.6	100.5	80.4	62.5	49.1	46.9
62.5°	13958.6	4398.3	270.1	176.4	118.3	91.5	71.4	60.3	44.6	31.2	29.0
65°	14757.9	4268.8	223.2	142.9	93.8	64.8	46.9	42.4	26.8	13.4	11.2
66°	14492.2	4076.8	205.4	129.5	84.9	55.8	40.2	35.7	20.1	6.7	6.7
67.5°	13708.5	3623.6	178.6	111.7	73.7	44.6	31.2	26.8	11.2	2.3	0.0
70°	11746.0	2931.5	140.6	82.6	53.6	31.2	17.9	13.4	6.7	0.0	0.0
72.5°	9022.2	2183.6	111.7	62.5	38.0	17.9	8.9	4.5	6.7	0.0	0.0
75°	5528.1	1248.0	87.1	46.9	24.6	11.2	6.7	0.0	6.7	2.3	0.0
77.5°	2453.7	560.4	58.0	31.2	17.9	8.9	4.5	0.0	4.5	2.3	0.0
80°	620.7	183.1	33.5	22.3	13.4	6.7	2.3	0.0	4.5	4.5	2.3
82.5°	169.7	66.9	24.6	17.9	11.2	6.7	2.3	0.0	4.5	4.5	4.5
85°	66.9	31.2	22.3	17.9	13.4	6.7	2.3	0.0	4.5	4.5	4.5
87.5°	31.2	22.3	22.3	20.1	15.7	6.7	2.3	0.0	4.5	2.3	4.5
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)