

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: P452344

Luminaire Tested: **GALN-SA3B-740-U-SL3-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P452344
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-17)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA3B-740-U-SL3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14051 lumens
Efficiency: N/A
Efficacy: 116.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G3

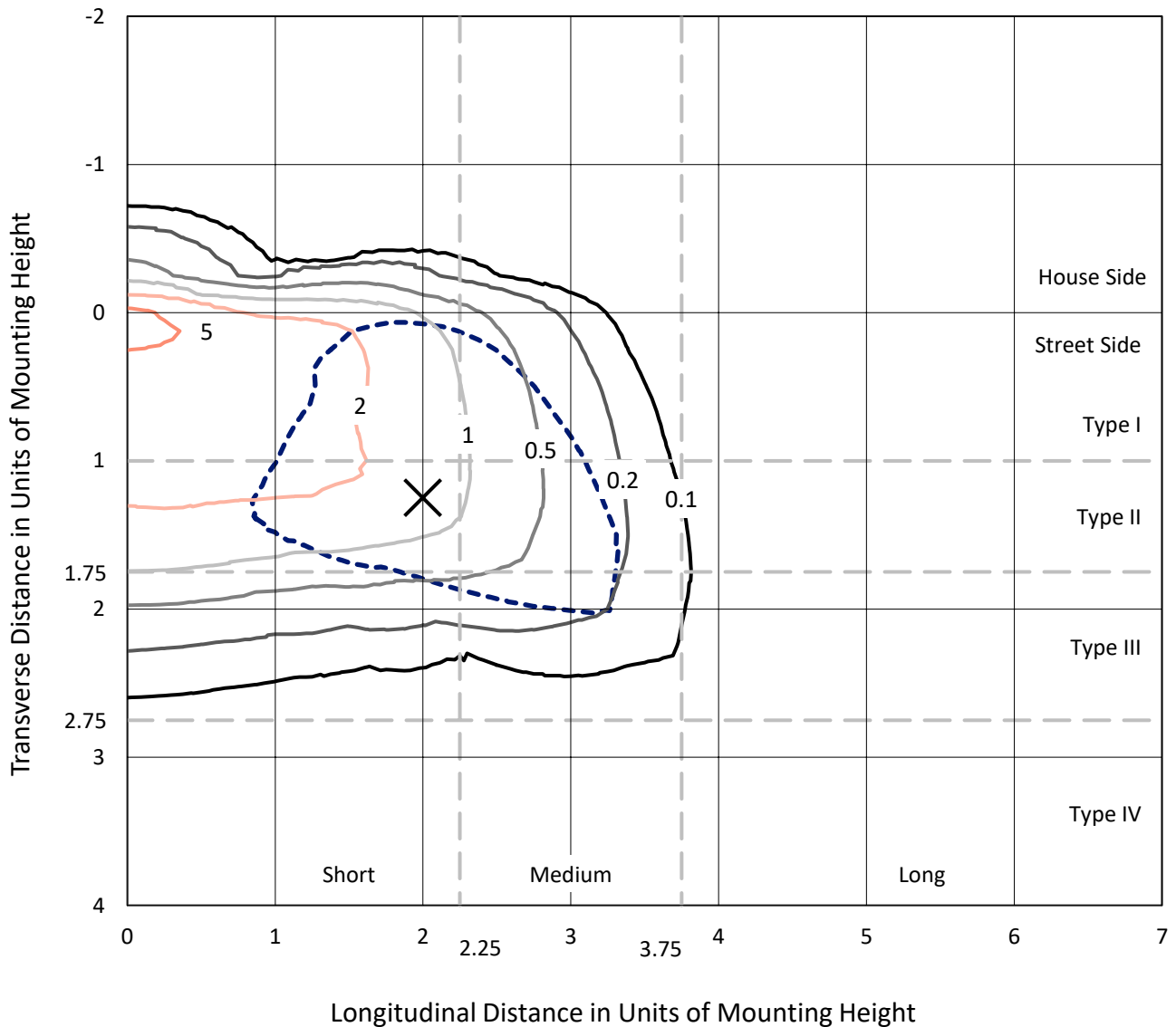
Input Watts (W): 121
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

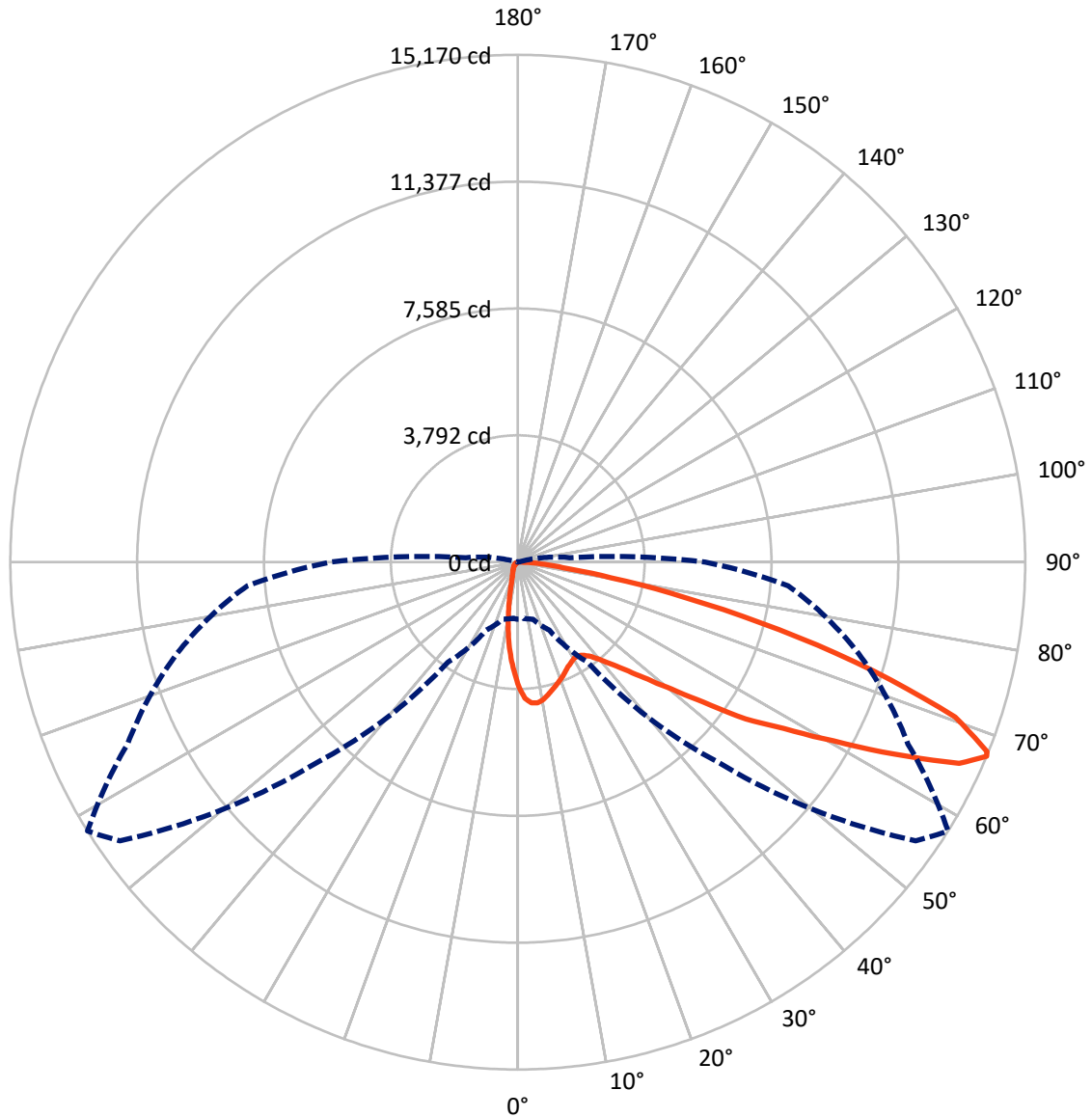
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.6 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 67-Deg Vertical

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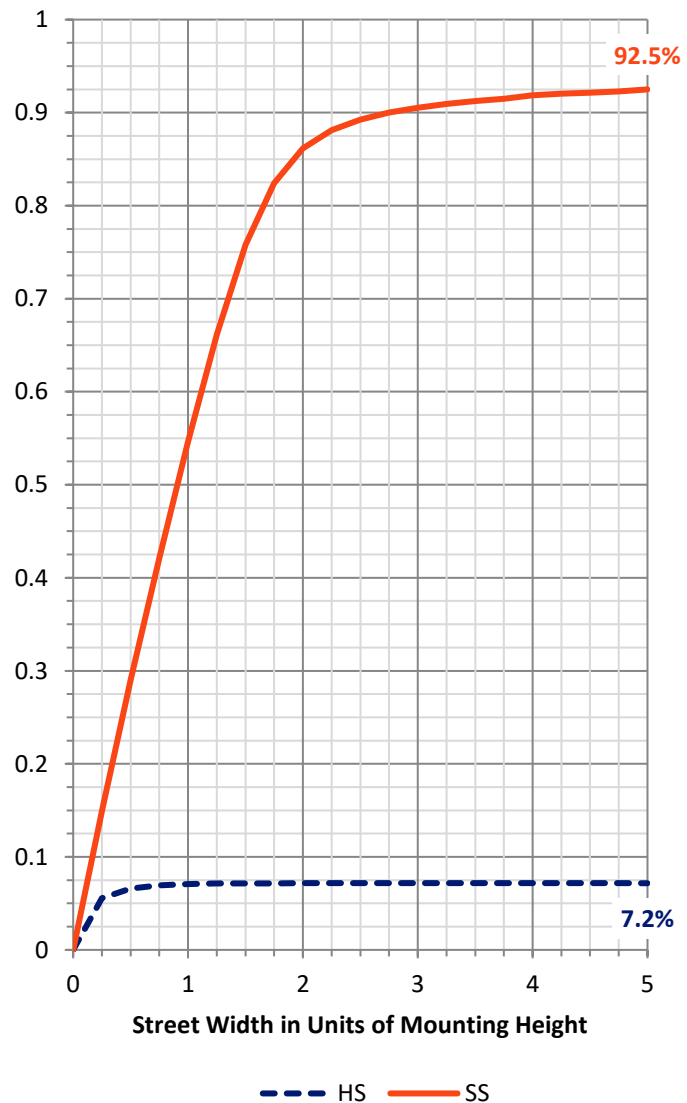
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1014.0	0.0	1014.0
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	13037.0	0.0	13037.0
	% Fixture	92.8	0.0	92.8
Total	Lumens	14051.0	0.0	14051.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	302.3	2.2
10°-20°	652.8	4.6
20°-30°	884.6	6.3
30°-40°	1226.9	8.7
40°-50°	1956.7	13.9
50°-60°	3382.4	24.1
60°-70°	3863.7	27.5
70°-80°	1610.8	11.5
80°-90°	170.8	1.2
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°	14051.0	100.0
0°-180°	14051.0	100.0



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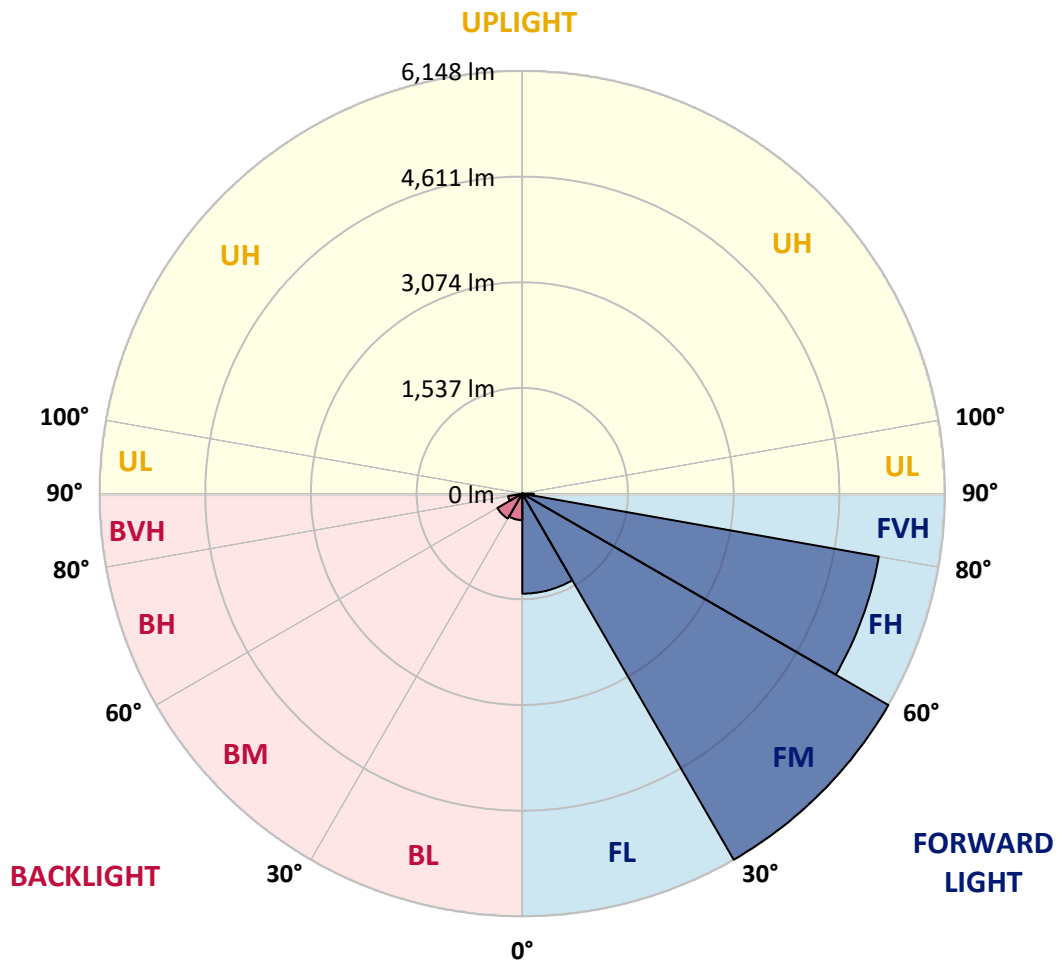
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1454.6	10.4			
FM (30°-60°)	6147.9	43.8			
FH (60°-80°)	5264.9	37.5			G3/7500
FVH (80°-90°)	169.6	1.2			G2/225
BL (0°-30°)	385.0	2.7	B1/500		
BM (30°-60°)	418.1	3.0	B1/1000		
BH (60°-80°)	209.6	1.5	B1/500		G1/500
BVH (80°-90°)	1.2	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G3

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	3724.8	3724.8	3724.8	3724.8	3724.8	3724.8	3724.8	3724.8	3724.8	3724.8	3724.8
2.5°	4322.9	4329.5	4305.1	4285.3	4234.6	4180.2	4107.9	4069.4	4003.7	3890.0	3764.2
5°	4424.3	4432.8	4429.0	4424.3	4404.6	4352.0	4260.0	4226.2	4129.5	3944.5	3717.3
7.5°	4199.0	4229.9	4233.7	4270.3	4305.1	4309.8	4275.0	4249.7	4160.5	3943.6	3633.7
10°	3900.4	3921.0	3951.1	3993.3	4076.9	4146.4	4180.2	4176.4	4124.8	3914.5	3536.1
12.5°	3599.0	3610.2	3656.2	3728.5	3830.9	3949.2	4039.3	4057.2	4058.1	3879.7	3454.4
15°	3339.8	3335.1	3370.8	3454.4	3598.0	3746.4	3907.9	3936.1	3981.1	3845.9	3378.3
17.5°	3118.2	3142.6	3148.3	3240.3	3372.7	3565.2	3770.8	3820.6	3910.7	3816.8	3315.4
20°	2981.1	2994.3	3006.5	3058.1	3177.4	3380.2	3642.2	3710.7	3845.0	3790.5	3245.0
22.5°	2940.8	2949.2	2938.9	2954.9	3039.4	3219.6	3502.3	3593.3	3782.1	3766.1	3187.7
25°	2971.8	2980.2	2955.8	2937.0	2966.1	3089.1	3367.1	3477.8	3731.4	3761.4	3144.5
27.5°	3046.9	3062.8	3029.0	2995.2	2978.3	3018.7	3261.0	3389.6	3696.6	3783.9	3124.8
30°	3164.2	3173.6	3148.3	3107.0	3068.5	3028.1	3205.6	3328.6	3687.2	3836.5	3122.9
32.5°	3291.9	3311.7	3297.6	3270.3	3220.6	3124.8	3221.5	3330.4	3709.8	3912.6	3146.4
35°	3449.7	3472.2	3485.4	3479.7	3415.9	3296.6	3322.9	3414.9	3769.9	4052.5	3210.2
37.5°	3604.6	3624.3	3698.5	3723.9	3667.5	3554.8	3520.1	3581.1	3902.3	4235.6	3325.7
40°	3782.1	3808.4	3912.6	4009.3	3982.1	3863.8	3799.9	3850.6	4105.1	4511.6	3544.5
42.5°	3952.0	3999.0	4157.6	4328.5	4353.9	4221.5	4179.2	4196.1	4405.5	4908.8	3849.7
45°	4193.3	4237.5	4442.1	4674.1	4793.3	4690.0	4646.8	4644.0	4817.7	5467.5	4344.5
47.5°	4541.7	4581.1	4822.4	5051.5	5263.7	5277.8	5196.1	5224.3	5336.0	6121.0	4951.1
50°	4968.9	5061.8	5220.5	5459.0	5742.6	5971.7	5997.0	5959.5	6055.3	6877.8	5679.7
52.5°	5589.5	5625.2	5770.8	5967.0	6299.4	6688.1	6989.5	6937.9	6907.8	7598.9	6415.8
55°	6052.4	6100.3	6326.6	6596.1	7083.4	7596.1	8249.6	8267.4	7888.1	8291.8	7136.0
57.5°	5912.5	5985.8	6328.5	6870.3	7941.6	8878.7	9365.0	9377.2	8795.1	8965.0	7949.1
60°	5194.2	5229.0	5720.0	6443.0	8014.8	10268.3	10947.1	10848.6	9718.1	9718.1	8667.4
62.5°	3683.5	3737.9	4136.0	5199.9	7238.3	10750.9	12841.9	12638.2	10989.4	10438.2	9095.6
65°	2353.9	2301.4	2565.2	3282.5	5392.4	10038.3	14491.7	14503.9	12185.6	10726.5	8861.8
67°	1705.1	1684.5	1760.5	2244.1	3656.2	8438.3	14526.4	15169.6	12872.9	10544.3	8114.4
67.5°	1559.6	1575.5	1630.9	2024.4	3322.0	7678.7	14368.7	15130.1	13027.8	10434.5	7843.9
70°	1182.1	1154.9	1215.0	1431.9	1991.5	4844.0	12360.3	13876.7	12835.4	9344.4	6267.5
72.5°	869.5	866.6	950.2	1170.9	1533.3	2580.2	9278.6	11126.5	10486.1	7115.3	3946.4
75°	586.8	613.1	746.5	978.4	1389.6	1673.2	6325.7	8072.1	7279.6	4040.3	1613.1
77.5°	334.3	336.1	480.7	785.9	1247.9	1346.4	3748.3	5142.6	3853.4	1343.6	478.9
80°	144.6	158.7	238.5	570.9	1034.7	1192.5	2149.2	2826.2	1558.6	284.5	154.9
82.5°	53.5	62.9	105.2	351.2	754.9	982.1	1298.6	1349.3	528.6	100.5	96.7
85°	0.0	1.9	38.5	164.3	393.4	438.5	867.6	800.0	233.8	47.9	62.9
87.5°	0.0	0.0	0.0	16.9	51.6	163.4	269.5	300.5	56.3	16.9	15.0
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°	3724.8	3724.8	3724.8	3724.8	3724.8	3724.8	3724.8	3724.8	3724.8	3724.8	3724.8
2.5°	3696.6	3635.6	3482.5	3329.5	3215.9	3121.1	2978.3	2900.4	2859.1	2798.1	2801.8
5°	3603.7	3479.7	3210.2	2931.4	2706.0	2486.3	2223.4	2117.3	2028.1	1977.4	1943.6
7.5°	3465.6	3282.5	2883.5	2511.7	2165.2	1781.2	1492.9	1300.4	1170.9	1123.0	1077.0
10°	3314.5	3071.3	2552.0	2036.6	1555.8	1159.6	915.5	738.9	676.0	617.8	623.5
12.5°	3174.6	2878.8	2247.8	1607.5	1090.1	737.1	574.6	502.3	481.7	475.1	475.1
15°	3060.0	2694.8	1921.1	1208.4	747.4	529.6	460.1	440.4	432.9	431.0	431.0
17.5°	2938.0	2520.1	1626.3	892.9	543.6	443.2	419.7	406.6	403.7	401.9	401.9
20°	2829.0	2344.5	1346.4	664.8	439.4	399.1	384.0	375.6	372.8	370.9	371.8
22.5°	2725.8	2188.7	1083.5	502.3	386.8	363.4	348.3	339.9	334.3	329.6	330.5
25°	2633.7	2038.4	871.3	411.3	348.3	327.7	312.7	300.5	288.3	282.6	281.7
27.5°	2569.0	1907.0	678.9	352.1	313.6	291.1	272.3	257.3	241.3	232.9	231.0
30°	2515.4	1773.7	537.1	310.8	278.9	257.3	233.8	212.2	195.3	186.8	183.1
32.5°	2480.7	1646.9	423.5	277.0	249.8	223.5	197.2	175.6	156.8	148.4	146.5
35°	2475.1	1540.8	346.5	248.8	223.5	195.3	168.1	144.6	128.6	120.2	118.3
37.5°	2515.4	1459.1	290.1	226.3	201.9	170.9	140.8	119.2	105.2	98.6	97.7
40°	2623.4	1407.5	251.6	207.5	182.2	148.4	120.2	101.4	87.3	80.7	80.7
42.5°	2829.0	1409.4	226.3	189.7	162.4	126.8	102.3	84.5	72.3	66.7	64.8
45°	3150.2	1473.2	204.7	171.8	143.7	109.9	87.3	69.5	57.3	52.6	52.6
47.5°	3580.2	1600.0	185.9	154.0	126.8	93.9	74.2	56.3	46.0	41.3	41.3
50°	4142.6	1803.7	169.9	139.0	112.7	80.7	60.1	46.0	35.7	31.9	31.0
52.5°	4730.4	2055.3	151.2	125.8	96.7	68.5	48.8	35.7	27.2	24.4	23.5
55°	5379.2	2301.4	133.3	112.7	78.9	57.3	38.5	28.2	19.7	16.9	16.9
57.5°	6033.7	2542.7	111.7	93.9	62.0	42.3	30.0	20.7	13.1	10.3	10.3
60°	6587.6	2620.6	94.8	76.1	46.9	30.0	21.6	13.1	7.5	4.7	4.7
62.5°	6663.7	2357.7	79.8	58.2	33.8	20.7	11.3	7.5	2.8	1.9	1.9
65°	6250.6	1915.4	66.7	44.1	22.5	10.3	4.7	2.8	0.9	0.0	0.0
67°	5600.8	1553.0	54.5	32.9	16.0	6.6	2.8	0.9	0.0	0.0	0.0
67.5°	5434.6	1480.7	52.6	31.0	14.1	5.6	1.9	0.9	0.0	0.0	0.0
70°	4264.7	1108.9	37.6	18.8	8.5	3.8	0.0	0.0	0.0	0.0	0.0
72.5°	2650.6	627.2	27.2	11.3	5.6	1.9	0.0	0.0	0.0	0.0	0.0
75°	1001.9	219.7	18.8	7.5	3.8	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	311.7	83.6	11.3	5.6	1.9	0.0	0.0	0.0	0.0	0.0	0.0
80°	105.2	31.9	7.5	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	64.8	13.1	4.7	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	40.4	5.6	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	7.5	1.9	0.9	0.0	0.0	0.0	0.0	0.0	0.0	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)