

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: P453359

Luminaire Tested: **GALN-SA4B-827-U-SL3-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P453359
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-SA4B-827-U-SL3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 2700K, 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: 13688 lumens
Efficiency: N/A
Efficacy: 83.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G3

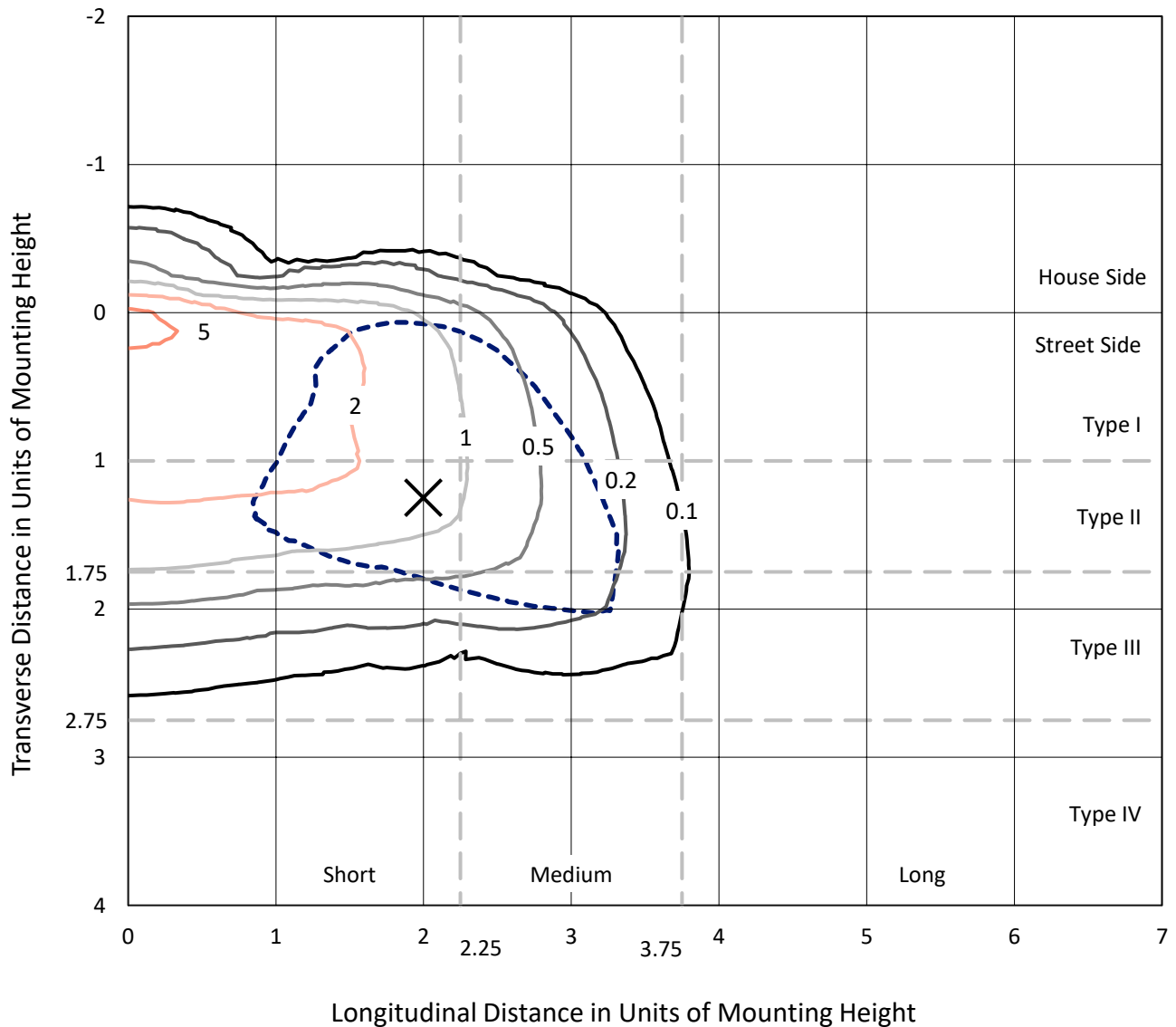
Input Watts (W): 164
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

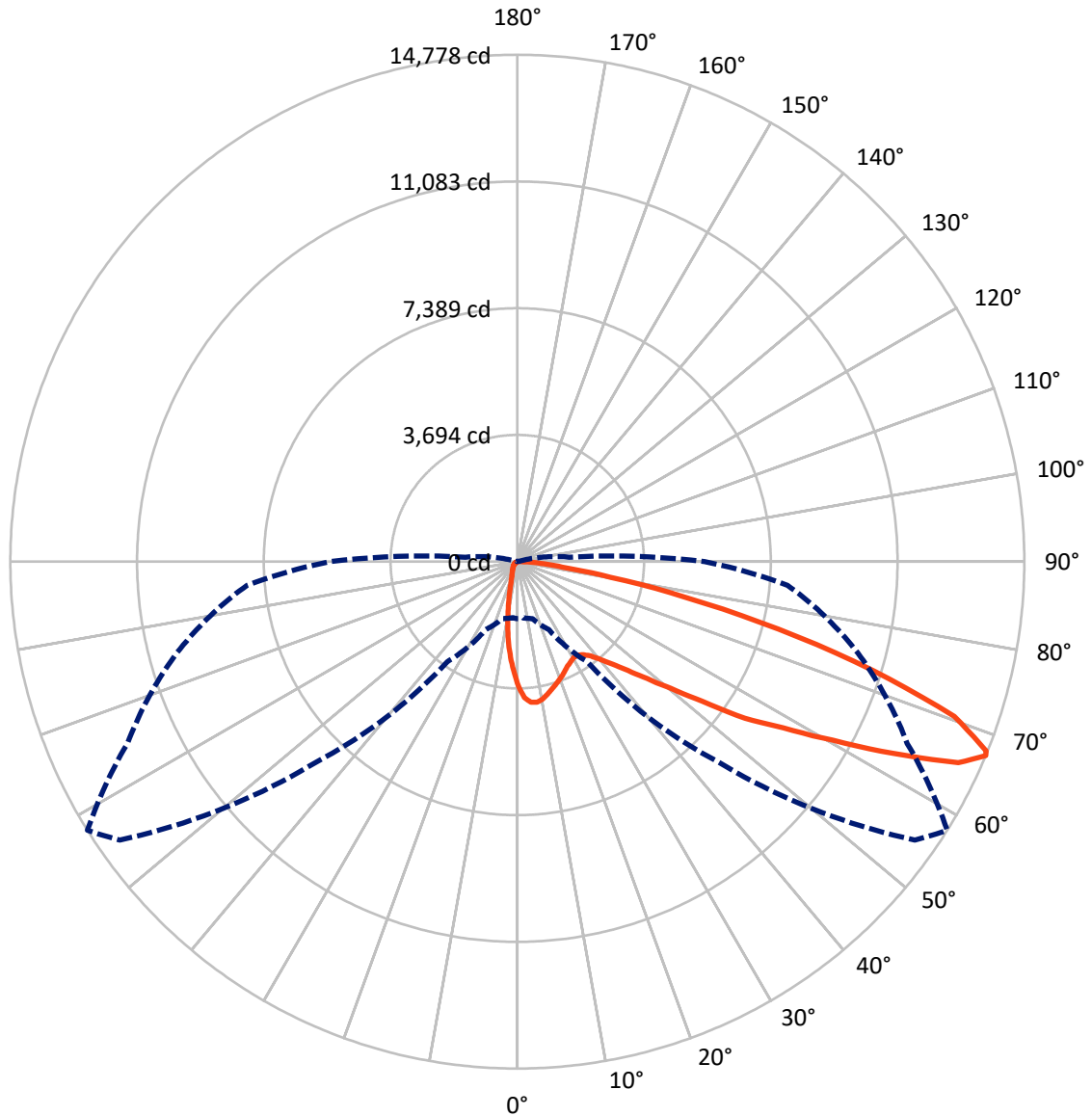
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.4 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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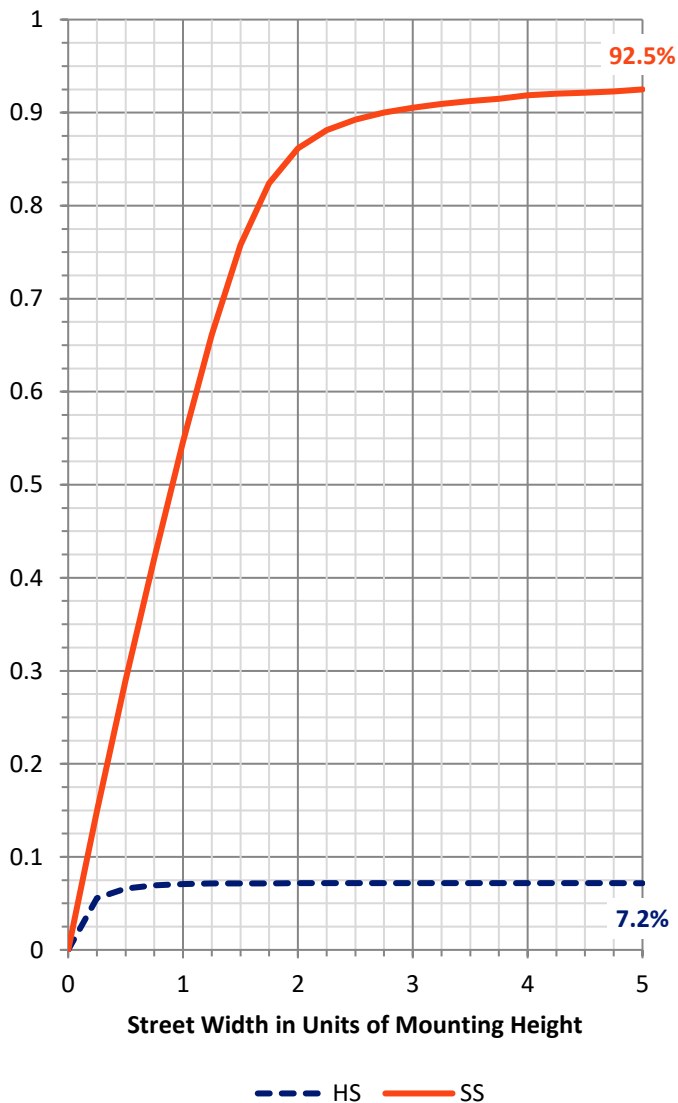
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	987.8	0.0	987.8
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	12700.2	0.0	12700.2
	% Fixture	92.8	0.0	92.8
Total	Lumens	13688.0	0.0	13688.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	294.4	2.2
10°-20°	635.9	4.6
20°-30°	861.7	6.3
30°-40°	1195.2	8.7
40°-50°	1906.2	13.9
50°-60°	3295.0	24.1
60°-70°	3763.9	27.5
70°-80°	1569.2	11.5
80°-90°	166.4	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°	13688.0	100.0
0°-180°	13688.0	100.0

Coefficient of Utilization



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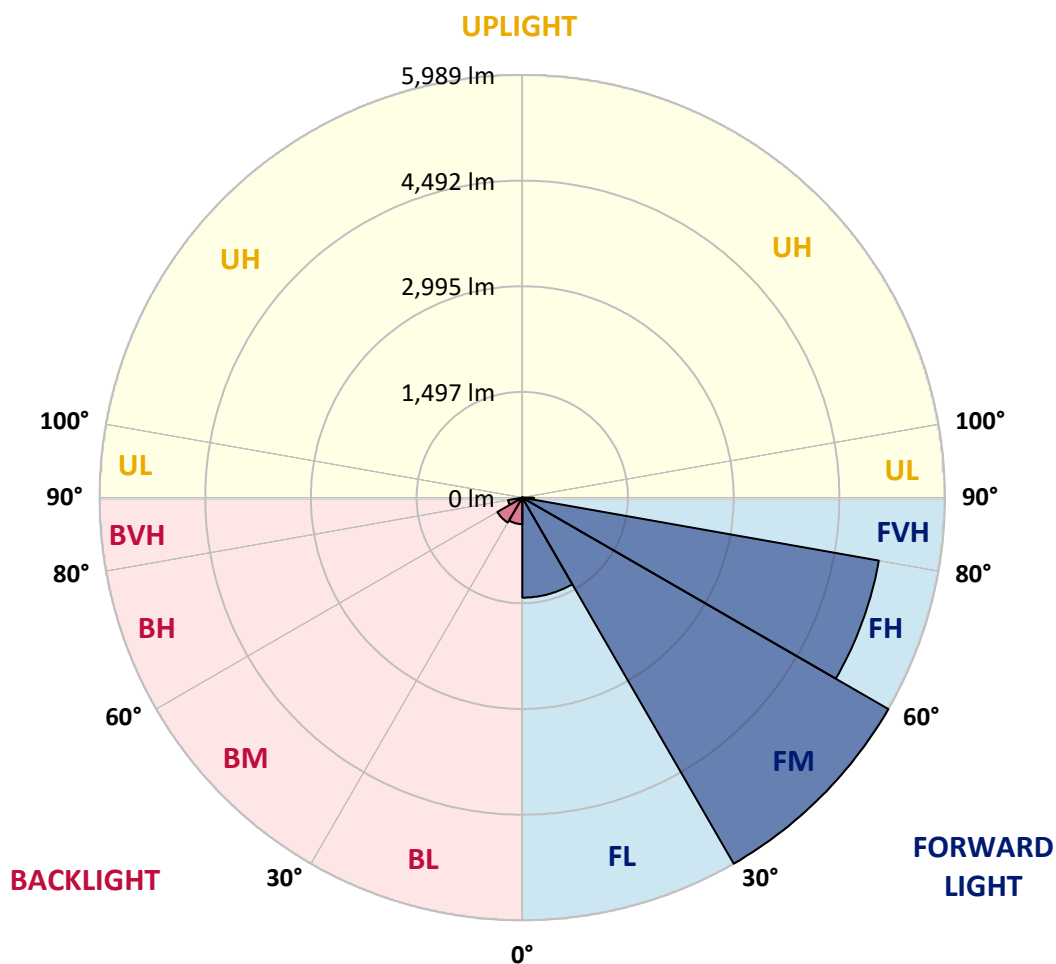
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1417.0	10.4			
FM (30°-60°)	5989.1	43.8			
FH (60°-80°)	5128.9	37.5			G3/7500
FVH (80°-90°)	165.2	1.2			G2/225
BL (0°-30°)	375.1	2.7	B1/500		
BM (30°-60°)	407.3	3.0	B1/1000		
BH (60°-80°)	204.2	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°	3628.6	3628.6	3628.6	3628.6	3628.6	3628.6	3628.6	3628.6	3628.6	3628.6	3628.6
2.5°	4211.2	4217.6	4193.8	4174.6	4125.2	4072.2	4001.8	3964.3	3900.2	3789.5	3667.0
5°	4310.0	4318.2	4314.6	4310.0	4290.8	4239.6	4149.9	4117.0	4022.8	3842.6	3621.2
7.5°	4090.5	4120.7	4124.3	4160.0	4193.8	4198.4	4164.6	4139.9	4053.0	3841.7	3539.8
10°	3799.6	3819.7	3849.0	3890.2	3971.6	4039.3	4072.2	4068.5	4018.2	3813.3	3444.7
12.5°	3506.0	3517.0	3561.8	3632.2	3731.9	3847.2	3935.0	3952.4	3953.3	3779.5	3365.1
15°	3253.5	3249.0	3283.7	3365.1	3505.1	3649.6	3806.9	3834.4	3878.3	3746.6	3291.0
17.5°	3037.7	3061.5	3066.9	3156.6	3285.6	3473.1	3673.4	3721.9	3809.7	3718.2	3229.8
20°	2904.1	2916.9	2928.8	2979.1	3095.3	3292.9	3548.1	3614.8	3745.6	3692.6	3161.2
22.5°	2864.8	2873.0	2863.0	2878.5	2960.8	3136.5	3411.8	3500.5	3684.4	3668.8	3105.4
25°	2895.0	2903.2	2879.4	2861.1	2889.5	3009.3	3280.1	3388.0	3635.0	3664.2	3063.3
27.5°	2968.2	2983.7	2950.8	2917.9	2901.4	2940.7	3176.7	3302.0	3601.1	3686.2	3044.1
30°	3082.5	3091.6	3066.9	3026.7	2989.2	2949.9	3122.7	3242.6	3592.0	3737.4	3042.2
32.5°	3206.9	3226.1	3212.4	3185.9	3137.4	3044.1	3138.3	3244.4	3613.9	3811.5	3065.1
35°	3360.6	3382.5	3395.3	3389.8	3327.6	3211.5	3237.1	3326.7	3672.5	3947.8	3127.3
37.5°	3511.5	3530.7	3603.0	3627.6	3572.8	3463.0	3429.2	3488.6	3801.4	4126.2	3239.8
40°	3684.4	3710.0	3811.5	3905.7	3879.2	3763.9	3701.7	3751.1	3999.0	4395.1	3452.9
42.5°	3849.9	3895.7	4050.2	4216.7	4241.4	4112.4	4071.3	4087.7	4291.7	4782.0	3750.2
45°	4085.0	4128.0	4327.4	4553.3	4669.5	4568.9	4526.8	4524.0	4693.3	5326.2	4232.3
47.5°	4424.3	4462.8	4697.8	4921.0	5127.7	5141.5	5061.9	5089.3	5198.2	5962.8	4823.1
50°	4840.5	4931.1	5085.7	5318.0	5594.2	5817.4	5842.1	5805.5	5898.8	6700.1	5532.9
52.5°	5445.1	5479.9	5621.7	5812.8	6136.6	6515.3	6808.9	6758.6	6729.4	7402.6	6250.1
55°	5896.1	5942.7	6163.2	6425.7	6900.4	7399.8	8036.4	8053.8	7684.3	8077.6	6951.6
57.5°	5759.8	5831.1	6165.0	6692.8	7736.4	8649.3	9123.1	9135.0	8567.9	8733.4	7743.7
60°	5060.0	5093.9	5572.3	6276.6	7807.8	10003.0	10664.3	10568.3	9467.0	9467.0	8443.5
62.5°	3588.3	3641.4	4029.2	5065.5	7051.3	10473.2	12510.2	12311.7	10705.5	10168.6	8860.6
65°	2293.1	2241.9	2498.9	3197.7	5253.0	9778.9	14117.3	14129.2	11870.8	10449.4	8632.8
67°	1661.1	1640.9	1715.0	2186.1	3561.8	8220.3	14151.1	14777.7	12540.4	10271.9	7904.7
67.5°	1519.3	1534.8	1588.8	1972.1	3236.2	7480.3	13997.5	14739.3	12691.3	10164.9	7641.3
70°	1151.6	1125.1	1183.6	1394.9	1940.1	4718.9	12040.9	13518.2	12503.8	9103.0	6105.5
72.5°	847.0	844.3	925.7	1140.6	1493.7	2513.6	9038.9	10839.0	10215.2	6931.5	3844.4
75°	571.7	597.3	727.2	953.1	1353.7	1630.0	6162.2	7863.6	7091.6	3935.9	1571.4
77.5°	325.6	327.5	468.3	765.6	1215.6	1311.7	3651.4	5009.7	3753.9	1308.9	466.5
80°	140.9	154.6	232.3	556.1	1008.0	1161.7	2093.7	2753.2	1518.4	277.2	150.9
82.5°	52.1	61.3	102.4	342.1	735.4	956.8	1265.0	1314.4	515.0	97.9	94.2
85°	0.0	1.8	37.5	160.1	383.3	427.2	845.2	779.3	227.8	46.6	61.3
87.5°	0.0	0.0	0.0	16.5	50.3	159.2	262.5	292.7	54.9	16.5	14.6
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°	3628.6	3628.6	3628.6	3628.6	3628.6	3628.6	3628.6	3628.6	3628.6	3628.6	3628.6
2.5°	3601.1	3541.7	3392.6	3243.5	3132.8	3040.4	2901.4	2825.5	2785.2	2725.8	2729.4
5°	3510.6	3389.8	3127.3	2855.7	2636.1	2422.1	2166.0	2062.6	1975.7	1926.3	1893.4
7.5°	3376.1	3197.7	2809.0	2446.8	2109.3	1735.2	1454.4	1266.8	1140.6	1094.0	1049.1
10°	3228.8	2991.9	2486.1	1984.0	1515.6	1129.6	891.8	719.9	658.6	601.9	607.4
12.5°	3092.6	2804.4	2189.8	1565.9	1062.0	718.0	559.8	489.4	469.2	462.8	462.8
15°	2981.0	2625.2	1871.4	1177.2	728.1	515.9	448.2	429.0	421.7	419.8	419.8
17.5°	2862.1	2455.0	1584.2	869.9	529.6	431.7	408.9	396.1	393.3	391.5	391.5
20°	2756.0	2284.0	1311.7	647.6	428.1	388.7	374.1	365.9	363.1	361.3	362.2
22.5°	2655.3	2132.1	1055.5	489.4	376.9	354.0	339.3	331.1	325.6	321.1	322.0
25°	2565.7	1985.8	848.8	400.6	339.3	319.2	304.6	292.7	280.8	275.3	274.4
27.5°	2502.6	1857.7	661.3	343.0	305.5	283.6	265.3	250.6	235.1	226.8	225.0
30°	2450.4	1727.8	523.2	302.8	271.7	250.6	227.8	206.7	190.3	182.0	178.4
32.5°	2416.6	1604.4	412.5	269.8	243.3	217.7	192.1	171.0	152.8	144.5	142.7
35°	2411.1	1501.0	337.5	242.4	217.7	190.3	163.7	140.9	125.3	117.1	115.3
37.5°	2450.4	1421.4	282.6	220.4	196.7	166.5	137.2	116.2	102.4	96.0	95.1
40°	2555.6	1371.1	245.1	202.1	177.4	144.5	117.1	98.8	85.1	78.7	78.7
42.5°	2756.0	1372.9	220.4	184.8	158.2	123.5	99.7	82.3	70.4	64.9	63.1
45°	3068.8	1435.1	199.4	167.4	139.9	107.0	85.1	67.7	55.8	51.2	51.2
47.5°	3487.7	1558.6	181.1	150.0	123.5	91.5	72.3	54.9	44.8	40.2	40.2
50°	4035.6	1757.1	165.6	135.4	109.8	78.7	58.5	44.8	34.8	31.1	30.2
52.5°	4608.2	2002.2	147.3	122.6	94.2	66.8	47.6	34.8	26.5	23.8	22.9
55°	5240.2	2241.9	129.9	109.8	76.8	55.8	37.5	27.4	19.2	16.5	16.5
57.5°	5877.8	2477.0	108.8	91.5	60.4	41.2	29.3	20.1	12.8	10.1	10.1
60°	6417.4	2552.9	92.4	74.1	45.7	29.3	21.0	12.8	7.3	4.6	4.6
62.5°	6491.5	2296.8	77.7	56.7	32.9	20.1	11.0	7.3	2.7	1.8	1.8
65°	6089.1	1866.0	64.9	43.0	22.0	10.1	4.6	2.7	0.9	0.0	0.0
67°	5456.1	1512.9	53.1	32.0	15.5	6.4	2.7	0.9	0.0	0.0	0.0
67.5°	5294.2	1442.5	51.2	30.2	13.7	5.5	1.8	0.9	0.0	0.0	0.0
70°	4154.5	1080.2	36.6	18.3	8.2	3.7	0.0	0.0	0.0	0.0	0.0
72.5°	2582.2	611.0	26.5	11.0	5.5	1.8	0.0	0.0	0.0	0.0	0.0
75°	976.0	214.0	18.3	7.3	3.7	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	303.7	81.4	11.0	5.5	1.8	0.0	0.0	0.0	0.0	0.0	0.0
80°	102.4	31.1	7.3	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	63.1	12.8	4.6	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	39.3	5.5	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	7.3	1.8	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)