

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: P455344

Luminaire Tested: **GALN-SA6C-730-U-T3-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P455344
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-13)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA6C-730-U-T3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27875 lumens
Efficiency: N/A
Efficacy: 86.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

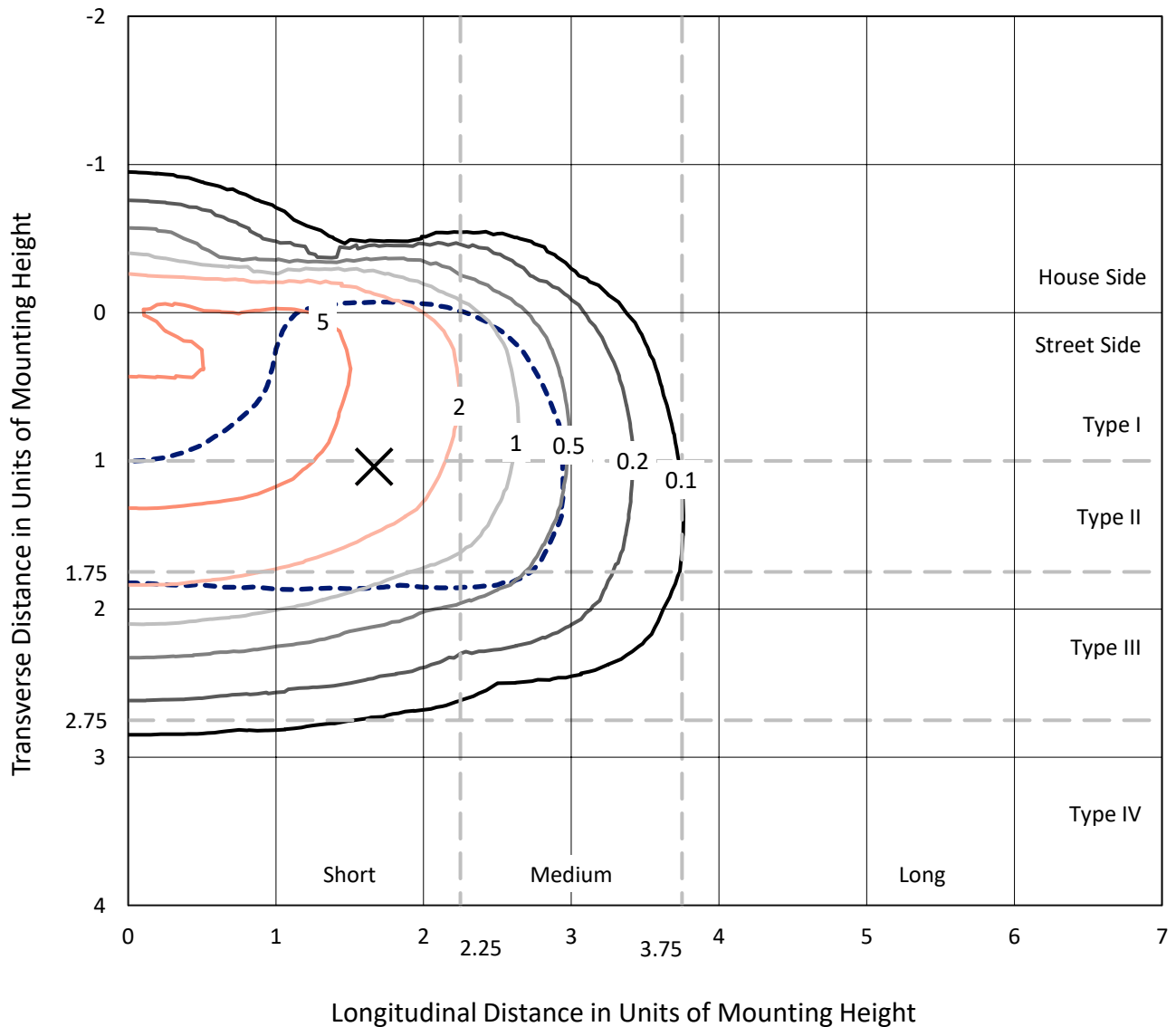
Input Watts (W): 321
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

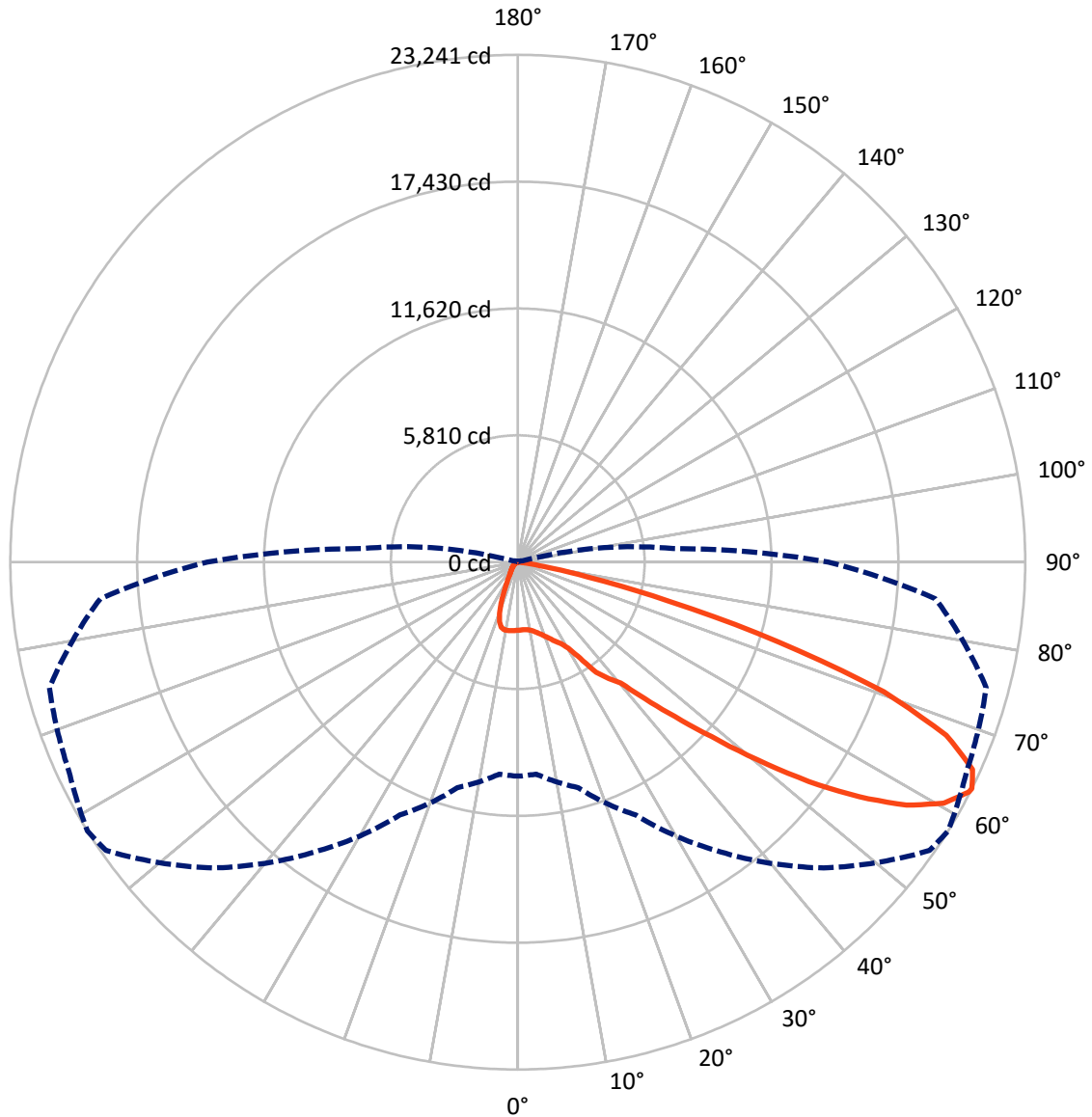
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.8 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 63-Deg Vertical



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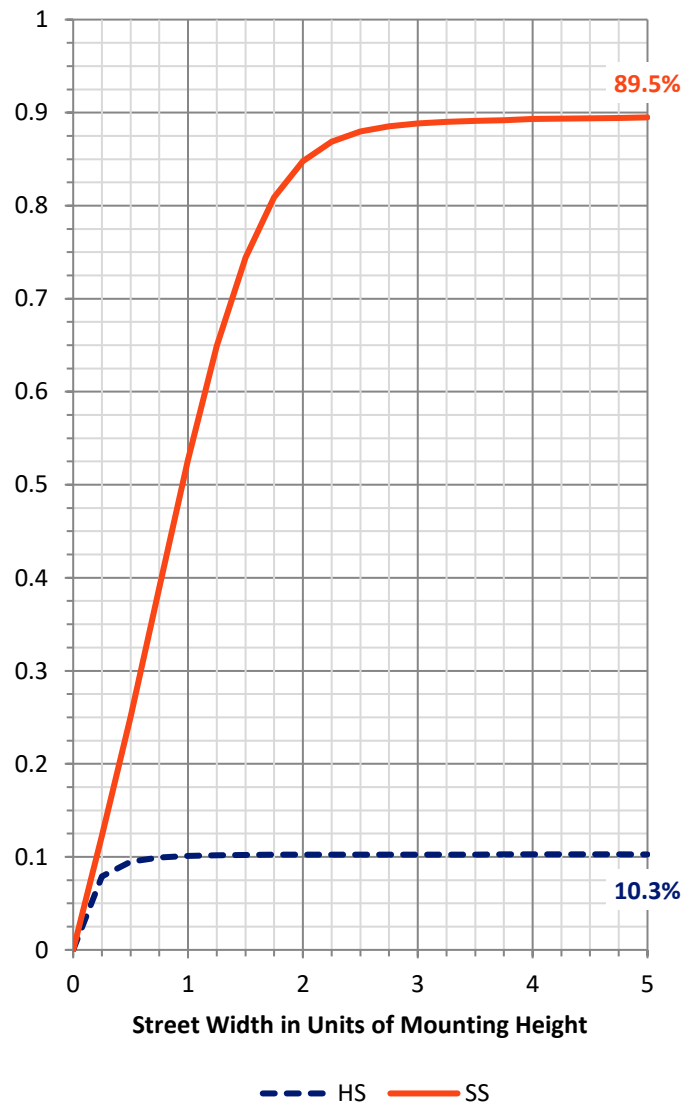
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2886.3	0.0	2886.3
	% Fixture	10.4	0.0	10.4
Street Side	Lumens	24988.7	0.0	24988.7
	% Fixture	89.6	0.0	89.6
Total	Lumens	27875.0	0.0	27875.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	292.1	1.0
10°-20°	795.7	2.9
20°-30°	1380.9	5.0
30°-40°	2537.7	9.1
40°-50°	4777.1	17.1
50°-60°	8170.8	29.3
60°-70°	7823.6	28.1
70°-80°	1995.0	7.2
80°-90°	102.0	0.4
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°	27875.0	100.0
0°-180°	27875.0	100.0



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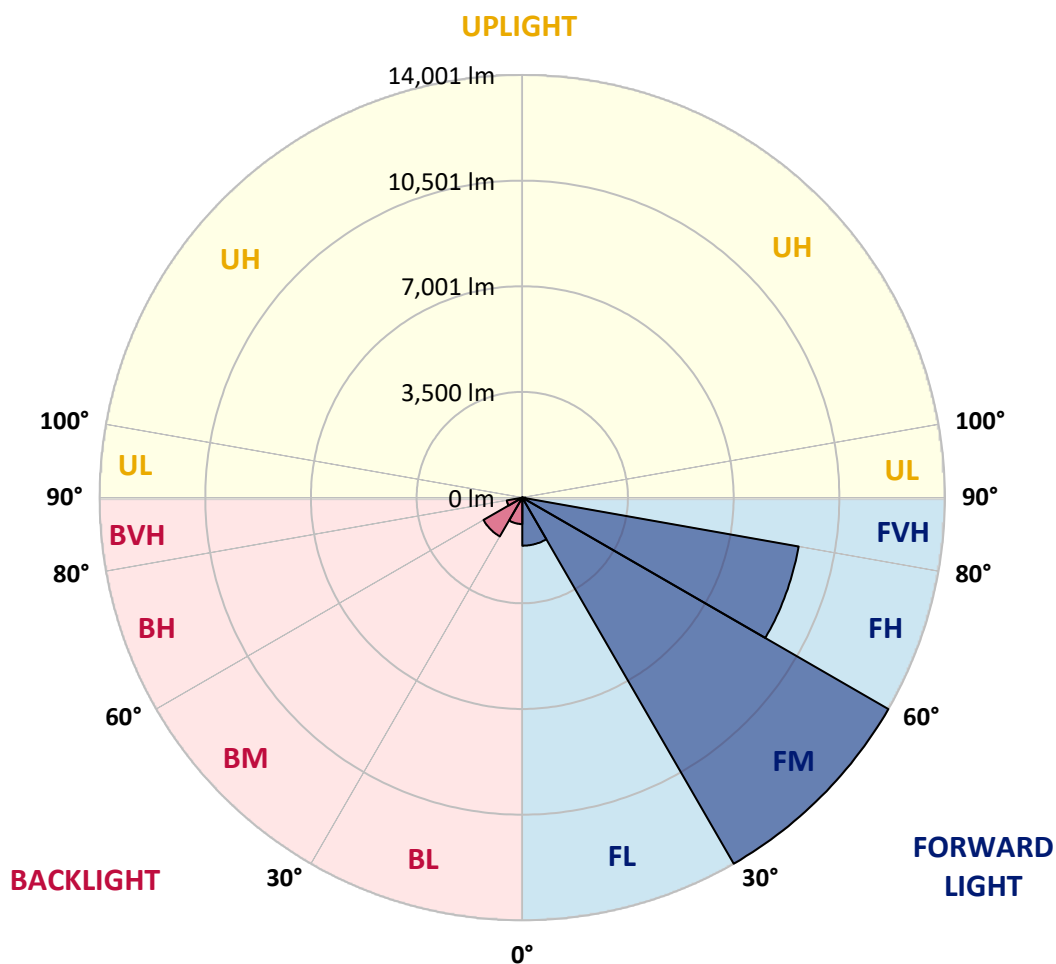
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1593.4	5.7			
FM	(30°-60°)	14001.1	50.2			
FH	(60°-80°)	9296.2	33.3			G4/12000
FVH	(80°-90°)	98.1	0.4			G1/100
BL	(0°-30°)	875.3	3.1	B2/1000		
BM	(30°-60°)	1484.5	5.3	B2/2500		
BH	(60°-80°)	522.5	1.9	B2/1000		G2/1000
BVH	(80°-90°)	4.0	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 III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	3120.7	3120.7	3120.7	3120.7	3120.7	3120.7	3120.7	3120.7	3120.7	3120.7	3120.7
2.5°	3043.1	3053.6	3064.1	3068.2	3082.9	3097.6	3108.1	3106.0	3122.8	3131.2	3131.2
5°	2921.3	2921.3	2948.6	2973.8	3015.8	3057.8	3097.6	3106.0	3137.5	3166.9	3177.4
7.5°	2818.5	2824.8	2845.8	2892.0	2948.6	3022.1	3101.8	3120.7	3175.3	3240.3	3267.6
10°	2770.2	2774.4	2801.7	2850.0	2921.3	3022.1	3133.3	3169.0	3252.9	3355.8	3393.5
12.5°	2759.7	2766.0	2793.3	2847.9	2929.7	3051.5	3202.6	3240.3	3362.1	3494.3	3550.9
15°	2778.6	2782.8	2810.1	2868.9	2959.1	3103.9	3294.9	3347.4	3492.2	3645.4	3718.8
17.5°	2845.8	2841.6	2860.5	2908.7	3009.5	3169.0	3406.1	3469.1	3639.1	3849.0	3897.2
20°	3131.2	3103.9	3087.1	3045.2	3085.0	3261.3	3540.4	3632.8	3842.7	4056.7	4090.3
22.5°	3746.1	3685.3	3565.6	3401.9	3276.0	3387.2	3702.0	3809.1	4079.8	4289.7	4289.7
25°	4528.9	4451.3	4331.6	3974.9	3666.4	3595.0	3884.6	4018.9	4337.9	4549.9	4480.6
27.5°	5509.0	5448.1	5215.2	4799.6	4327.4	3958.1	4096.6	4220.4	4566.7	4822.7	4677.9
30°	6306.5	6277.1	6086.1	5714.7	5194.2	4654.8	4491.1	4573.0	4871.0	5166.9	5017.9
32.5°	6980.2	6980.2	6785.0	6438.7	5951.8	5473.3	5160.6	5219.4	5504.8	5846.9	5569.9
35°	7721.0	7695.8	7538.4	7208.9	6663.3	6241.4	6113.4	6193.2	6451.3	6705.2	6023.2
37.5°	8499.6	8491.2	8327.5	8008.5	7563.6	7032.6	6732.5	6753.5	6885.7	7041.0	6554.1
40°	9345.4	9357.9	9143.9	8946.6	8526.9	7983.3	7408.3	7276.1	7399.9	7838.5	7534.2
42.5°	10344.3	10314.9	10222.6	9954.0	9616.1	9290.8	8600.3	8552.1	8661.2	9131.3	8801.8
45°	11504.9	11546.9	11387.4	11238.3	11011.7	10741.0	10163.8	10079.9	10199.5	10929.8	10461.8
47.5°	12667.5	12627.7	12730.5	12703.2	12824.9	12623.5	12113.5	11941.4	12228.9	12921.5	12233.1
50°	13553.2	13597.2	13811.3	14124.0	14646.6	14759.9	14270.9	14212.2	14340.2	14785.1	13817.6
52.5°	14128.2	14275.1	14610.9	15414.7	16357.0	17089.4	16718.0	16686.5	16634.0	16753.6	15332.8
55°	14503.9	14652.9	15091.5	16275.1	17897.4	19087.4	19106.2	18971.9	18625.6	18539.6	16749.4
57.5°	14273.0	14302.4	14927.8	16510.2	18751.6	20512.3	21129.4	20995.0	20354.9	20029.7	18000.2
60°	12829.1	12890.0	13760.9	15620.4	18380.1	20978.3	22470.4	22409.5	21708.6	21341.3	18974.0
62.5°	10270.9	10447.2	11343.3	13416.8	16652.9	20193.3	23014.0	23186.0	22640.4	22134.6	19280.4
63°	9800.8	9744.1	10690.6	12774.6	16195.4	19805.1	23022.3	23240.6	22682.4	22210.2	19196.5
65°	7255.1	7425.1	8040.0	10073.6	13477.6	17998.1	22504.0	22890.1	22527.1	21876.5	18266.8
67.5°	4073.5	4065.1	4745.1	6591.9	9433.5	14117.7	20348.7	21165.0	21089.5	19630.9	15141.9
70°	1993.7	2025.2	2304.3	3416.6	5471.2	9739.9	16908.9	17790.4	17817.7	15418.9	10470.2
72.5°	902.4	917.1	1116.5	1664.2	2812.2	5185.8	11651.8	12493.3	12338.0	9825.9	5781.8
75°	476.4	507.9	614.9	837.4	1355.7	2138.5	6338.0	7152.2	6827.0	4489.0	2128.0
77.5°	352.6	363.1	417.6	533.1	726.1	833.2	2734.6	3252.9	3047.3	1624.4	705.2
80°	258.1	266.5	310.6	377.8	457.5	423.9	1030.4	1181.5	1059.8	551.9	216.2
82.5°	157.4	159.5	226.7	281.2	287.5	237.1	340.0	365.2	382.0	310.6	117.5
85°	56.7	71.4	153.2	203.6	170.0	119.6	142.7	157.4	172.1	197.3	69.3
87.5°	6.3	8.4	73.5	98.6	48.3	44.1	52.5	58.8	63.0	73.5	33.6
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°	3120.7	3120.7	3120.7	3120.7	3120.7	3120.7	3120.7	3120.7	3120.7	3120.7	3120.7
2.5°	3139.6	3148.0	3141.7	3131.2	3129.1	3122.8	3110.2	3110.2	3110.2	3114.4	3110.2
5°	3185.8	3192.1	3177.4	3156.4	3133.3	3103.9	3072.4	3053.6	3051.5	3047.3	3036.8
7.5°	3273.9	3282.3	3248.7	3198.4	3135.4	3064.1	2996.9	2933.9	2904.6	2881.5	2881.5
10°	3401.9	3410.3	3343.2	3252.9	3127.0	2982.2	2822.7	2677.9	2564.6	2512.1	2499.5
12.5°	3555.1	3559.3	3448.1	3290.7	3082.9	2803.8	2463.8	2146.9	1926.6	1825.8	1815.3
15°	3723.0	3693.6	3546.7	3305.4	2957.0	2436.5	1848.9	1460.7	1231.9	1164.8	1189.9
17.5°	3893.0	3838.5	3622.3	3282.3	2673.7	1848.9	1242.4	996.9	925.5	906.6	906.6
20°	4052.5	3977.0	3676.9	3181.6	2182.6	1273.9	921.3	862.6	850.0	837.4	839.5
22.5°	4212.0	4096.6	3725.1	2957.0	1626.5	910.8	824.8	805.9	789.1	772.3	770.2
25°	4367.3	4207.8	3744.0	2541.5	1108.1	782.8	753.4	728.2	694.7	675.8	671.6
27.5°	4528.9	4342.1	3731.4	2016.8	808.0	701.0	671.6	635.9	596.0	562.4	562.4
30°	4839.5	4598.2	3687.4	1450.2	680.0	617.0	579.2	522.6	478.5	444.9	442.8
32.5°	5263.5	4931.9	3536.2	1020.0	604.4	543.6	486.9	423.9	377.8	352.6	352.6
35°	5641.2	5267.6	3252.9	751.3	543.6	472.2	402.9	342.1	306.4	289.6	283.3
37.5°	6216.2	5758.7	2862.6	610.7	484.8	409.2	337.9	281.2	251.8	239.2	239.2
40°	7078.8	6359.0	2384.1	535.2	428.1	348.4	281.2	237.1	214.1	199.4	199.4
42.5°	8149.1	7093.5	1899.3	480.6	375.7	300.1	235.1	201.5	180.5	170.0	167.9
45°	9496.5	7867.9	1462.8	430.2	333.7	256.0	199.4	170.0	149.0	142.7	144.8
47.5°	10902.6	8550.0	1133.3	386.2	289.6	216.2	170.0	146.9	132.2	123.8	123.8
50°	12103.0	9020.1	860.5	335.8	256.0	182.6	149.0	132.2	119.6	115.4	113.3
52.5°	13106.2	9156.5	659.0	291.7	224.6	157.4	132.2	119.6	109.1	102.8	102.8
55°	13960.3	9036.8	516.3	245.5	188.9	136.4	117.5	107.0	94.4	88.1	86.0
57.5°	14459.8	8652.8	394.5	203.6	153.2	113.3	102.8	90.2	75.6	65.1	65.1
60°	14711.6	8094.5	302.2	167.9	117.5	90.2	83.9	67.2	52.5	44.1	42.0
62.5°	14409.4	7353.7	228.8	132.2	88.1	67.2	56.7	48.3	33.6	25.2	25.2
63°	14222.6	7139.7	220.4	125.9	81.8	63.0	52.5	44.1	29.4	23.1	21.0
65°	12965.5	6205.8	180.5	100.7	65.1	44.1	35.7	31.5	21.0	10.5	8.4
67.5°	10296.0	4747.2	142.7	75.6	46.2	31.5	21.0	18.9	6.3	0.0	0.0
70°	6961.3	3066.1	111.2	54.6	31.5	18.9	10.5	8.4	2.1	0.0	0.0
72.5°	3630.7	1571.9	86.0	39.9	18.9	12.6	6.3	2.1	0.0	0.0	0.0
75°	1284.4	535.2	63.0	25.2	12.6	6.3	2.1	0.0	0.0	0.0	0.0
77.5°	388.3	199.4	39.9	18.9	8.4	4.2	0.0	0.0	0.0	0.0	0.0
80°	136.4	73.5	23.1	12.6	6.3	2.1	0.0	0.0	0.0	0.0	0.0
82.5°	67.2	35.7	14.7	10.5	6.3	2.1	0.0	0.0	0.0	0.0	0.0
85°	37.8	23.1	12.6	10.5	6.3	4.2	0.0	0.0	0.0	0.0	0.0
87.5°	27.3	16.8	12.6	10.5	8.4	4.2	2.1	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)