

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: P454186

Luminaire Tested: **GALN-SA5B-730-U-T3R-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P454186
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-9)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA5B-730-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20318 lumens
Efficiency: N/A
Efficacy: 99.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

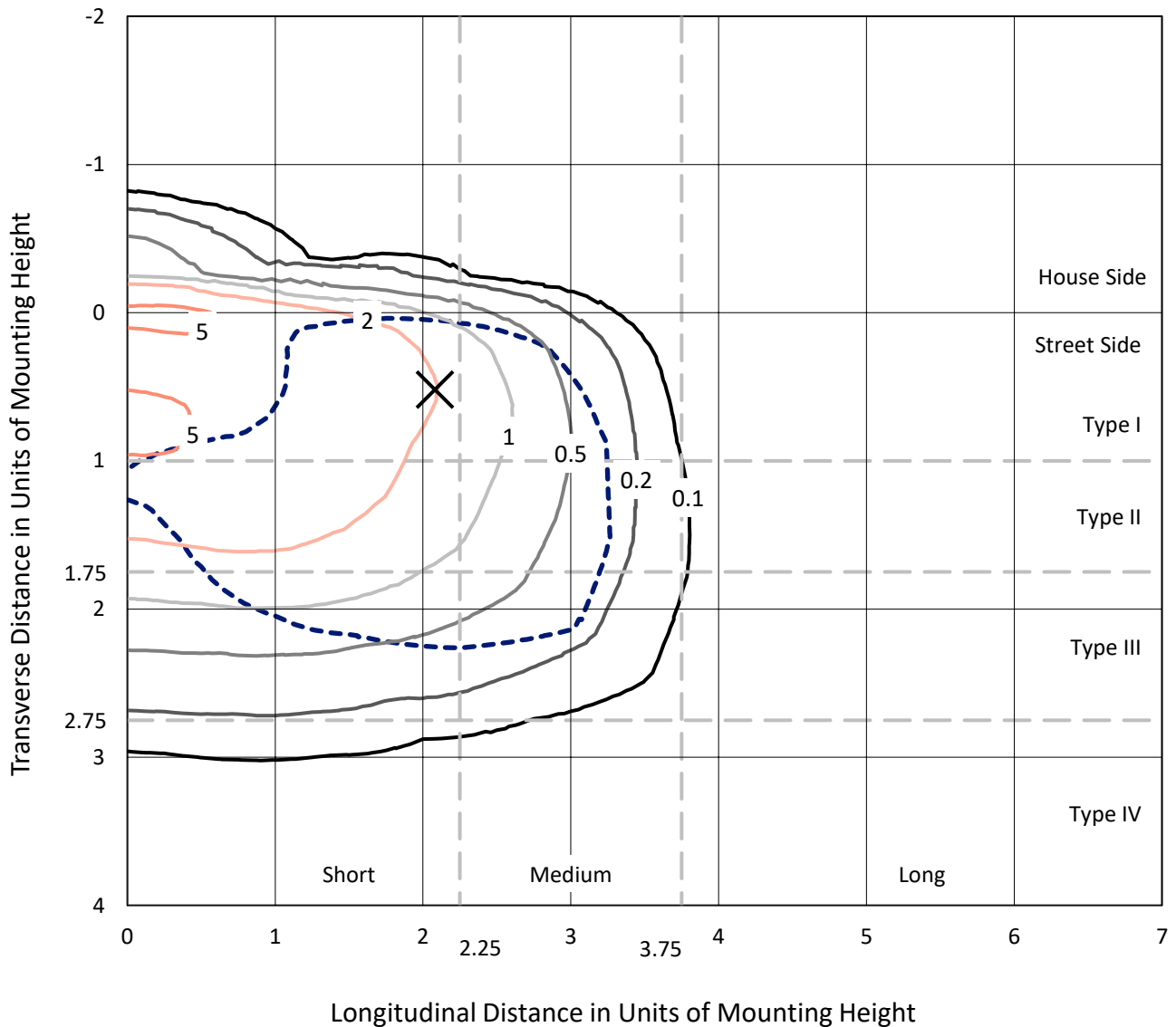
Input Watts (W): 204
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

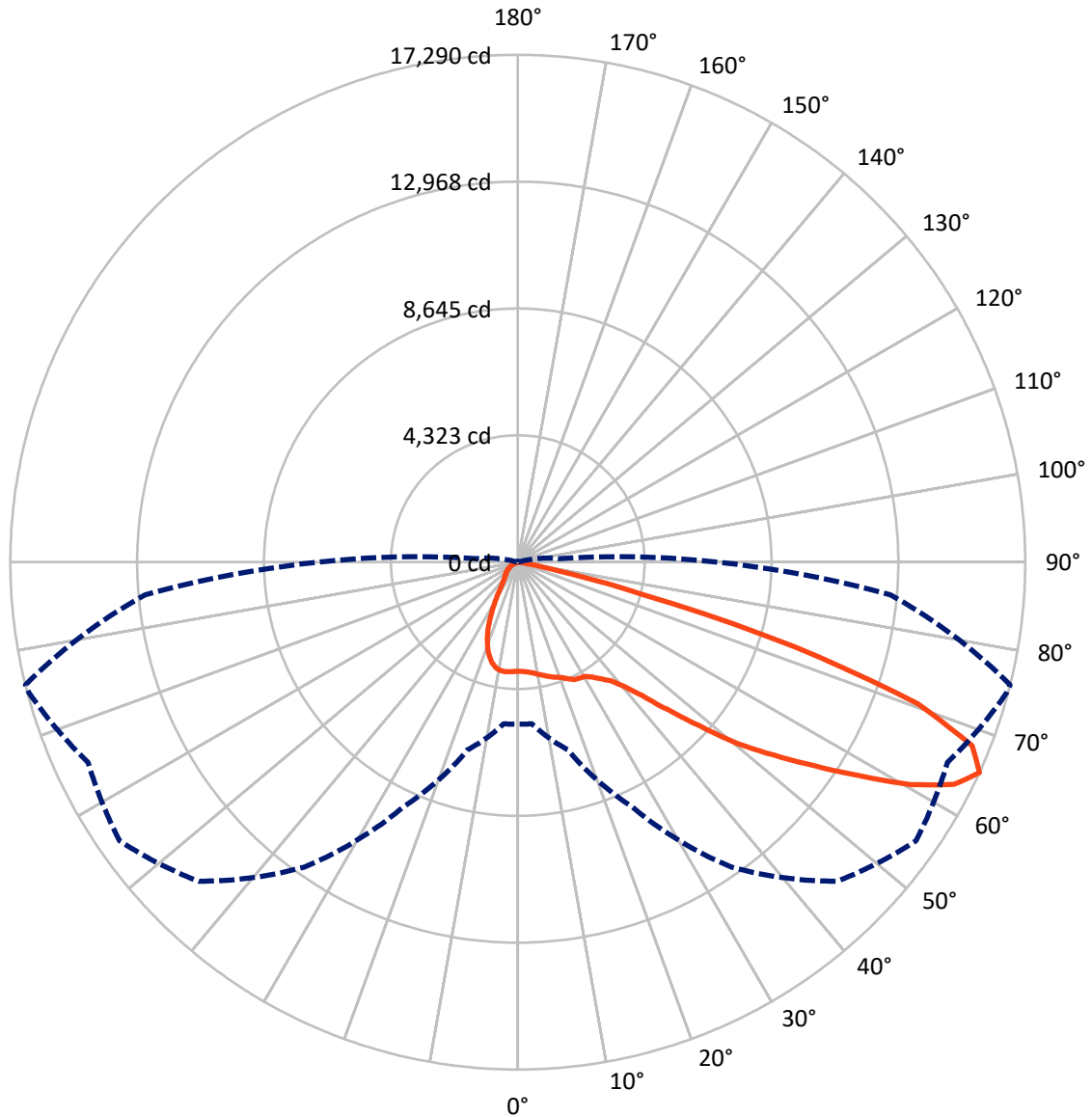
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.2 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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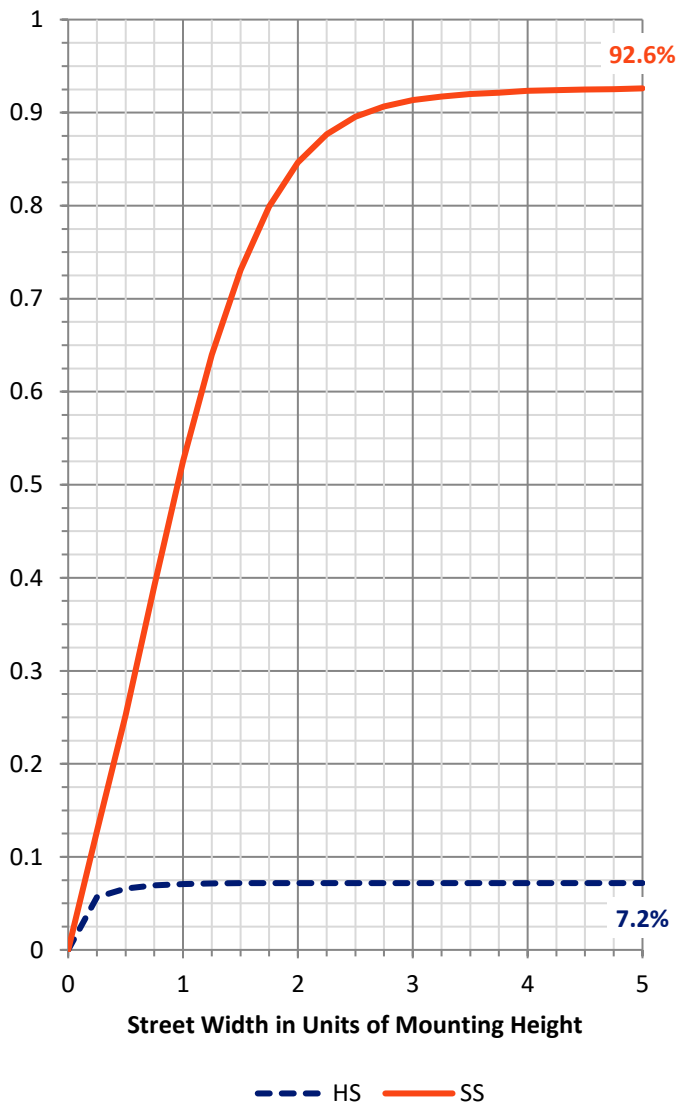
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1467.4	0.0	1467.4
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	18850.6	0.0	18850.6
	% Fixture	92.8	0.0	92.8
Total	Lumens	20318.0	0.0	20318.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	306.2	1.5
10°-20°	681.7	3.4
20°-30°	1098.5	5.4
30°-40°	1910.1	9.4
40°-50°	3156.3	15.5
50°-60°	4875.9	24.0
60°-70°	5954.1	29.3
70°-80°	2259.7	11.1
80°-90°	75.4	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°	20318.0	100.0
0°-180°	20318.0	100.0

Coefficient of Utilization



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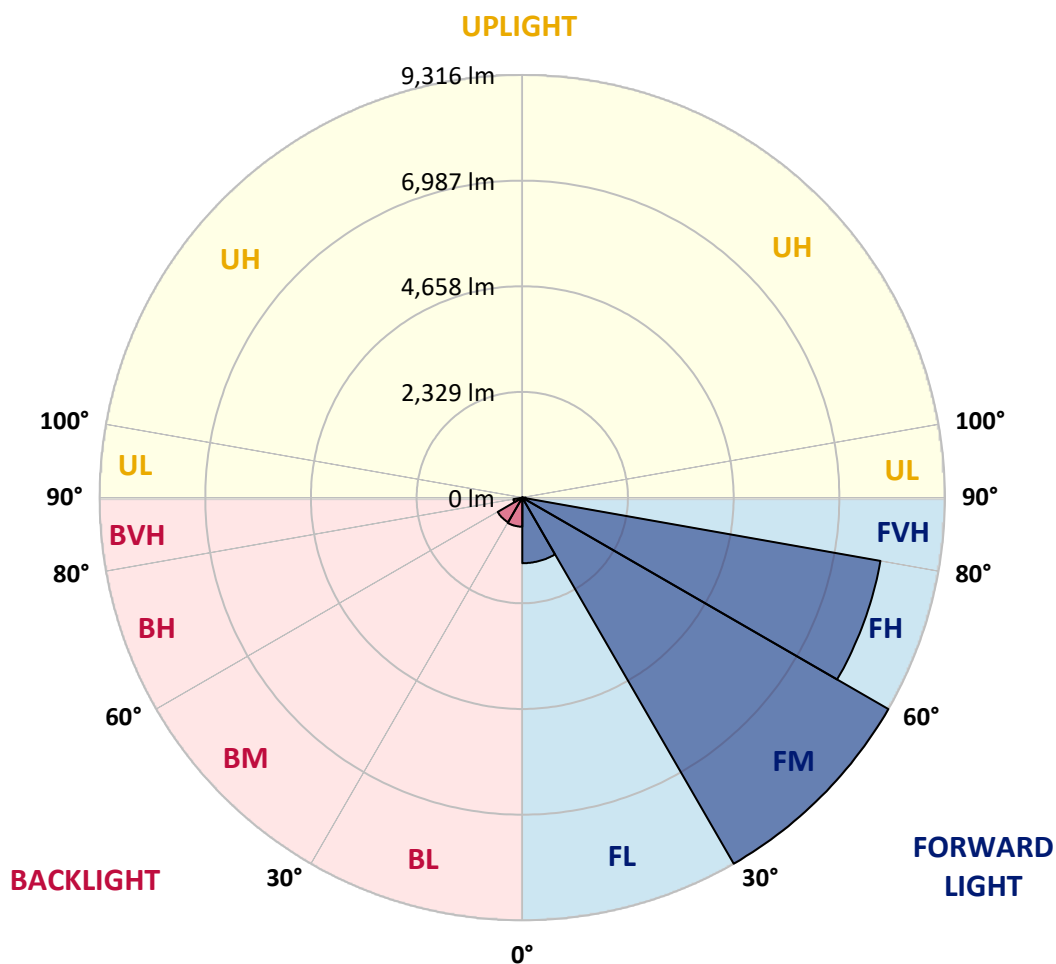
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1445.4	7.1			
FM	(30°-60°)	9316.1	45.9			
FH	(60°-80°)	8014.8	39.4			G4/12000
FVH	(80°-90°)	74.4	0.4			G1/100
BL	(0°-30°)	641.1	3.2	B2/1000		
BM	(30°-60°)	626.2	3.1	B1/1000		
BH	(60°-80°)	199.1	1.0	B1/500		G1/500
BVH	(80°-90°)	1.0	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°	65°	75°	76°	85°
0°	3716.8	3716.8	3716.8	3716.8	3716.8	3716.8	3716.8	3716.8	3716.8	3716.8	3716.8
2.5°	3551.8	3553.3	3561.9	3583.4	3616.4	3643.7	3666.6	3703.9	3729.7	3732.6	3741.2
5°	3306.5	3289.3	3306.5	3362.5	3412.7	3488.7	3582.0	3675.2	3758.4	3764.1	3804.3
7.5°	3031.1	3045.5	3072.7	3130.1	3224.8	3341.0	3475.8	3642.2	3800.0	3814.4	3893.3
10°	2751.4	2782.9	2827.4	2914.9	3046.9	3197.5	3381.1	3619.3	3866.0	3886.1	4022.4
12.5°	2493.2	2507.5	2562.0	2679.7	2843.2	3055.5	3309.4	3606.4	3939.2	3963.5	4160.1
15°	2295.2	2313.9	2361.2	2467.4	2649.5	2922.1	3250.6	3602.0	4010.9	4045.3	4297.8
17.5°	2257.9	2269.4	2289.5	2361.2	2520.4	2815.9	3197.5	3600.6	4079.7	4121.3	4425.5
20°	2411.4	2401.4	2381.3	2374.1	2461.6	2734.2	3158.8	3612.1	4145.7	4193.1	4560.3
22.5°	2795.9	2808.8	2691.1	2552.0	2523.3	2721.3	3153.0	3666.6	4250.4	4306.4	4710.9
25°	3612.1	3513.1	3329.5	2996.7	2745.6	2800.2	3217.6	3795.7	4372.4	4434.1	4847.2
27.5°	4514.4	4484.3	4198.8	3650.8	3183.2	2966.6	3332.4	3894.7	4412.5	4475.7	4924.7
30°	5400.9	5436.8	5109.7	4504.4	3818.7	3275.0	3440.0	3932.0	4448.4	4514.4	5023.6
32.5°	6222.9	6265.9	5979.0	5379.4	4567.5	3808.6	3625.0	4076.9	4599.0	4666.5	5188.6
35°	6869.9	6875.6	6659.0	6181.3	5385.1	4457.0	4025.2	4330.8	4802.7	4881.6	5363.6
37.5°	7463.7	7455.1	7201.2	6789.5	6066.5	5101.1	4528.7	4623.4	5035.1	5116.9	5616.1
40°	7904.1	7909.9	7828.1	7440.8	6702.0	5696.4	4927.5	4897.4	5425.3	5553.0	5983.3
42.5°	8198.2	8251.3	8291.5	8094.9	7501.0	6429.5	5540.1	5484.1	6102.4	6208.6	6502.6
45°	8436.3	8531.0	8731.9	8721.8	8268.5	7328.9	6380.7	6265.9	7062.1	7175.4	7163.9
47.5°	8609.9	8706.0	9038.8	9239.7	8990.1	8201.1	7437.9	7338.9	8208.3	8331.6	7894.1
50°	8698.9	8813.6	9238.2	9627.0	9553.8	9041.7	8642.9	8648.6	9592.6	9711.6	8740.5
52.5°	8490.9	8640.0	9344.4	10044.4	10186.4	9846.5	9771.9	9961.2	10824.8	10926.6	9505.1
55°	7826.7	8014.6	9199.5	10400.2	10919.5	10796.1	11054.3	11342.7	12171.8	12237.8	10289.7
57.5°	7406.4	7605.8	8772.0	10702.9	11800.3	11989.6	12398.5	12609.3	13561.8	13729.7	11190.6
60°	7052.0	7208.4	8420.6	10767.4	12695.4	13449.9	13847.3	14065.4	15277.5	15386.5	12181.8
62.5°	6462.5	6641.8	7826.7	10317.0	13145.8	14619.1	15442.5	15344.9	16604.4	16680.5	12790.1
65°	5514.2	5530.0	6621.7	9185.2	12681.1	15377.9	16562.8	16154.0	17238.5	17290.1	12742.7
67.5°	4115.6	4267.7	5093.9	7219.9	10711.5	14729.5	16925.8	16175.5	16838.3	16694.8	11731.4
70°	2651.0	2767.2	3452.9	5006.4	7723.4	12292.3	15722.2	15066.6	14778.3	14459.8	9602.6
72.5°	1223.6	1372.8	2051.3	2860.4	4580.4	8756.2	12762.8	12240.7	10636.9	9850.8	6103.8
75°	533.6	570.9	1012.8	1509.1	2147.5	4630.6	8414.8	7598.6	4804.2	4388.2	2443.0
77.5°	325.6	350.0	530.8	809.1	843.5	1764.4	4533.0	3315.1	1484.7	1309.7	662.7
80°	220.9	248.2	385.9	423.2	288.3	492.0	1701.3	885.1	299.8	286.9	142.0
82.5°	107.6	136.3	285.5	236.7	124.8	157.8	494.9	189.4	87.5	81.8	50.2
85°	15.8	27.3	160.7	154.9	55.9	37.3	87.5	47.3	30.1	28.7	23.0
87.5°	0.0	0.0	54.5	24.4	5.7	5.7	10.0	10.0	11.5	10.0	11.5
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°	3716.8	3716.8	3716.8	3716.8	3716.8	3716.8	3716.8	3716.8	3716.8	3716.8	3716.8
2.5°	3745.5	3752.7	3725.4	3686.7	3645.1	3603.5	3544.7	3491.6	3460.0	3478.7	3432.8
5°	3812.9	3807.2	3735.5	3617.8	3461.5	3273.5	3087.1	2927.8	2876.2	2798.7	2790.1
7.5°	3906.2	3890.4	3738.3	3468.6	3115.8	2762.9	2418.6	2190.5	2060.0	1949.5	1952.4
10°	4036.7	3990.8	3705.3	3206.1	2625.1	2092.9	1654.0	1352.7	1222.2	1180.6	1147.6
12.5°	4171.5	4082.6	3613.5	2851.8	2044.2	1430.2	1005.6	822.0	741.6	715.8	713.0
15°	4292.0	4151.5	3452.9	2425.8	1486.2	913.8	685.7	625.4	615.4	616.8	615.4
17.5°	4411.1	4206.0	3230.5	1973.9	1009.9	655.6	589.6	575.2	579.5	585.3	583.8
20°	4510.1	4217.5	2946.5	1506.2	714.4	575.2	553.7	550.9	555.2	559.5	559.5
22.5°	4617.7	4226.1	2609.4	1042.9	583.8	535.1	523.6	523.6	529.3	535.1	536.5
25°	4698.0	4178.7	2206.3	748.8	515.0	496.3	490.6	492.0	497.8	500.6	499.2
27.5°	4710.9	4045.3	1778.8	573.8	467.6	449.0	443.3	449.0	441.8	446.1	443.3
30°	4722.4	3876.0	1345.6	483.4	424.6	395.9	387.3	378.7	373.0	365.8	364.4
32.5°	4758.3	3676.6	982.6	434.7	384.4	352.9	332.8	308.4	289.8	284.0	282.6
35°	4774.0	3437.1	721.6	395.9	348.6	314.2	278.3	243.9	216.6	206.6	213.7
37.5°	4834.3	3204.7	559.5	367.2	317.0	274.0	228.1	185.1	159.2	153.5	156.4
40°	4957.7	2952.2	469.1	342.8	289.8	236.7	180.7	139.1	121.9	116.2	114.8
42.5°	5155.6	2701.2	417.4	319.9	262.5	199.4	142.0	109.0	94.7	90.4	90.4
45°	5396.6	2460.2	381.6	295.5	233.8	160.7	111.9	87.5	78.9	76.0	76.0
47.5°	5713.6	2249.3	351.5	271.1	202.3	127.7	90.4	76.0	70.3	71.7	73.2
50°	6035.0	2092.9	318.5	243.9	166.4	104.7	77.5	67.4	66.0	67.4	67.4
52.5°	6277.4	2001.1	274.0	206.6	130.5	87.5	68.9	63.1	61.7	58.8	58.8
55°	6604.5	1981.1	218.0	167.8	103.3	73.2	61.7	57.4	53.1	50.2	48.8
57.5°	7024.8	2004.0	167.8	130.5	80.3	60.2	54.5	47.3	41.6	35.9	35.9
60°	7285.9	1952.4	130.5	100.4	58.8	48.8	41.6	34.4	27.3	23.0	21.5
62.5°	7202.7	1734.3	103.3	74.6	41.6	35.9	27.3	23.0	15.8	11.5	10.0
65°	6773.7	1400.1	83.2	51.6	30.1	21.5	14.3	14.3	7.2	1.4	0.0
67.5°	5928.8	1037.1	66.0	34.4	17.2	10.0	7.2	4.3	0.0	0.0	0.0
70°	4825.7	748.8	51.6	21.5	10.0	7.2	2.9	1.4	0.0	0.0	0.0
72.5°	3064.1	428.9	40.2	12.9	7.2	2.9	0.0	0.0	0.0	0.0	0.0
75°	1184.9	167.8	27.3	8.6	2.9	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	335.7	78.9	15.8	4.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	87.5	34.4	8.6	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	41.6	14.3	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	24.4	5.7	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	11.5	1.4	0.0	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)