

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: P453912

Luminaire Tested: **GALN-SA5A-727-U-SL4-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P453912
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-19)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA5A-727-U-SL4-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15755 lumens
Efficiency: N/A
Efficacy: 102.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G3

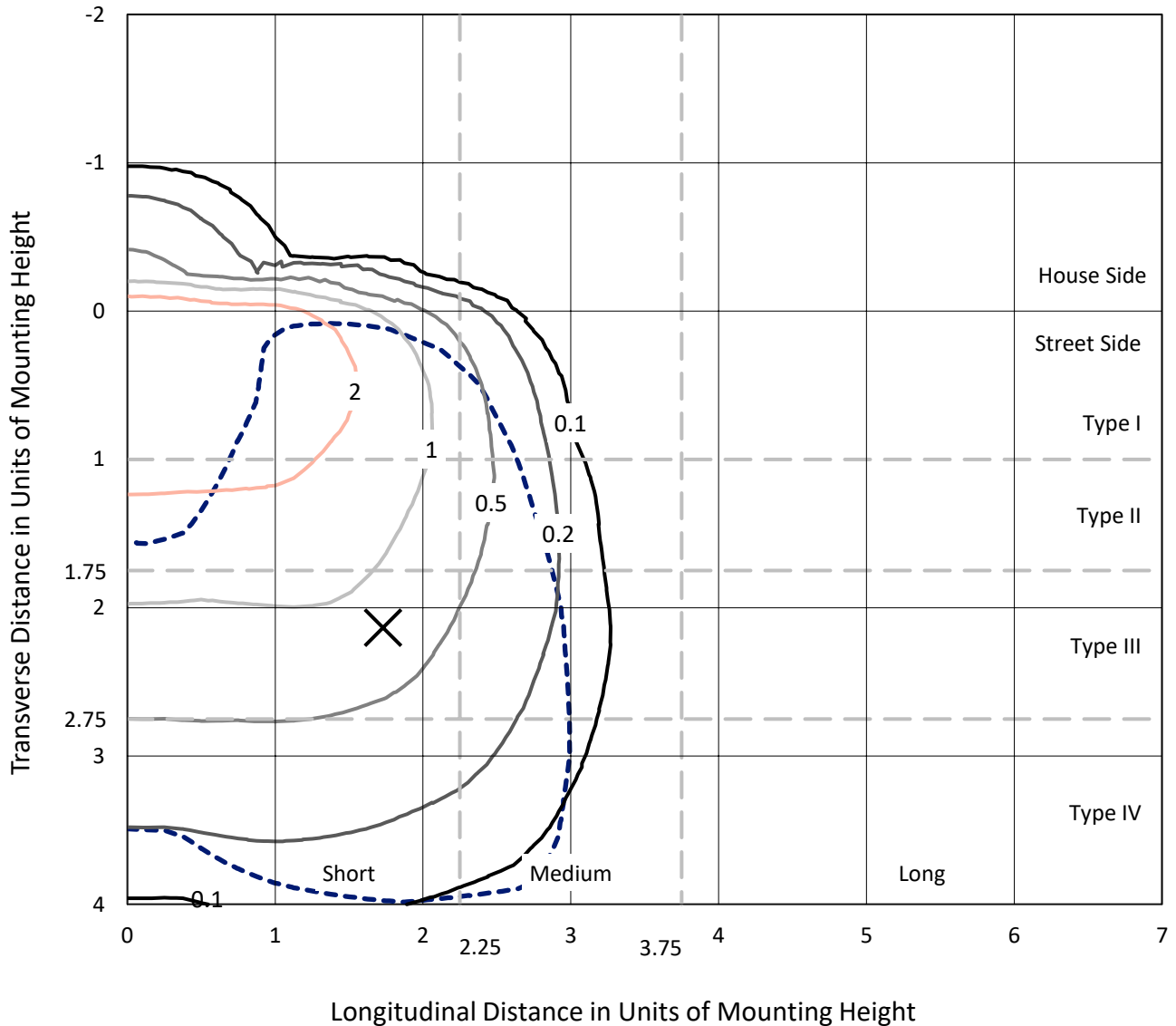
Input Watts (W): 154
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

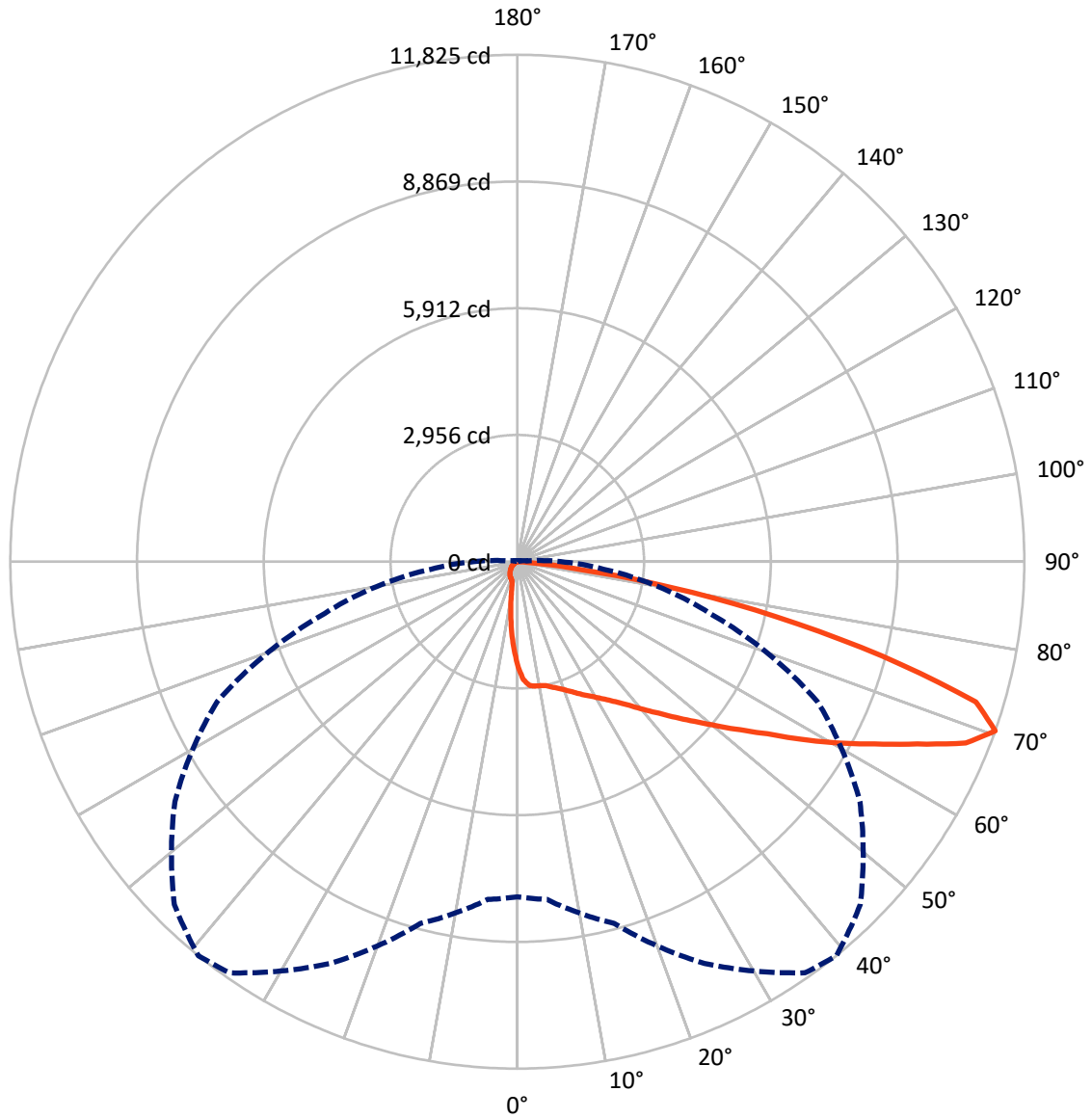
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.7 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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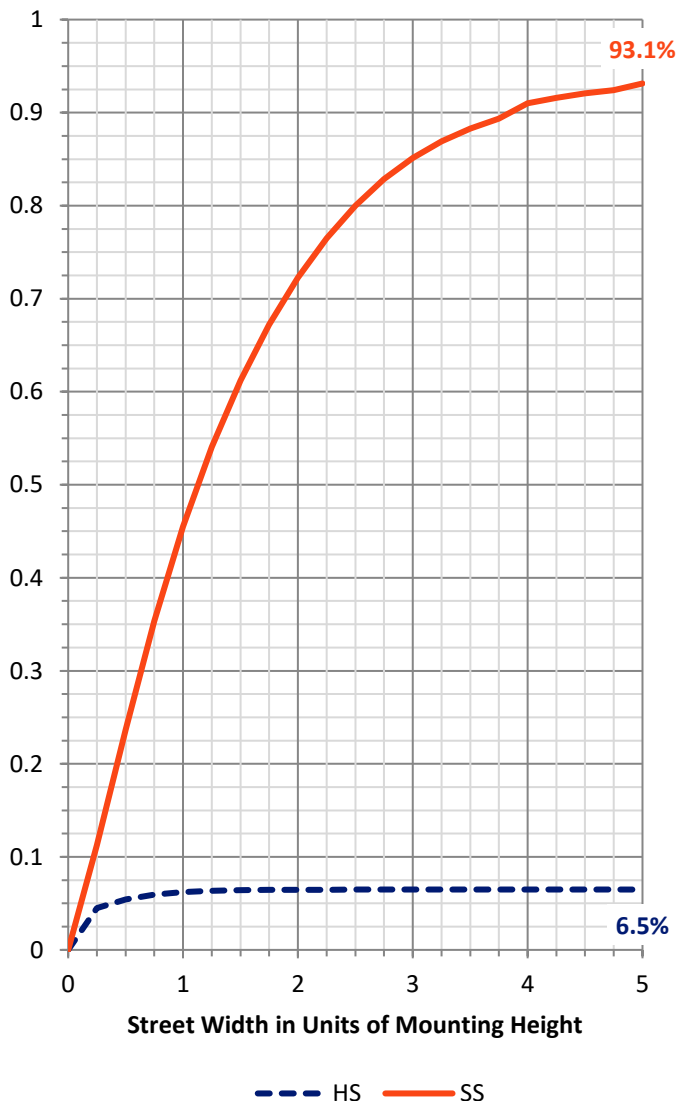
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1027.3	0.0	1027.3
	% Fixture	6.5	0.0	6.5
Street Side	Lumens	14727.7	0.0	14727.7
	% Fixture	93.5	0.0	93.5
Total	Lumens	15755.0	0.0	15755.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	209.7	1.3
10°-20°	544.9	3.5
20°-30°	912.8	5.8
30°-40°	1415.7	9.0
40°-50°	2243.5	14.2
50°-60°	3288.6	20.9
60°-70°	4215.2	26.8
70°-80°	2648.7	16.8
80°-90°	275.9	1.8
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°	15755.0	100.0
0°-180°	15755.0	100.0

Coefficient of Utilization



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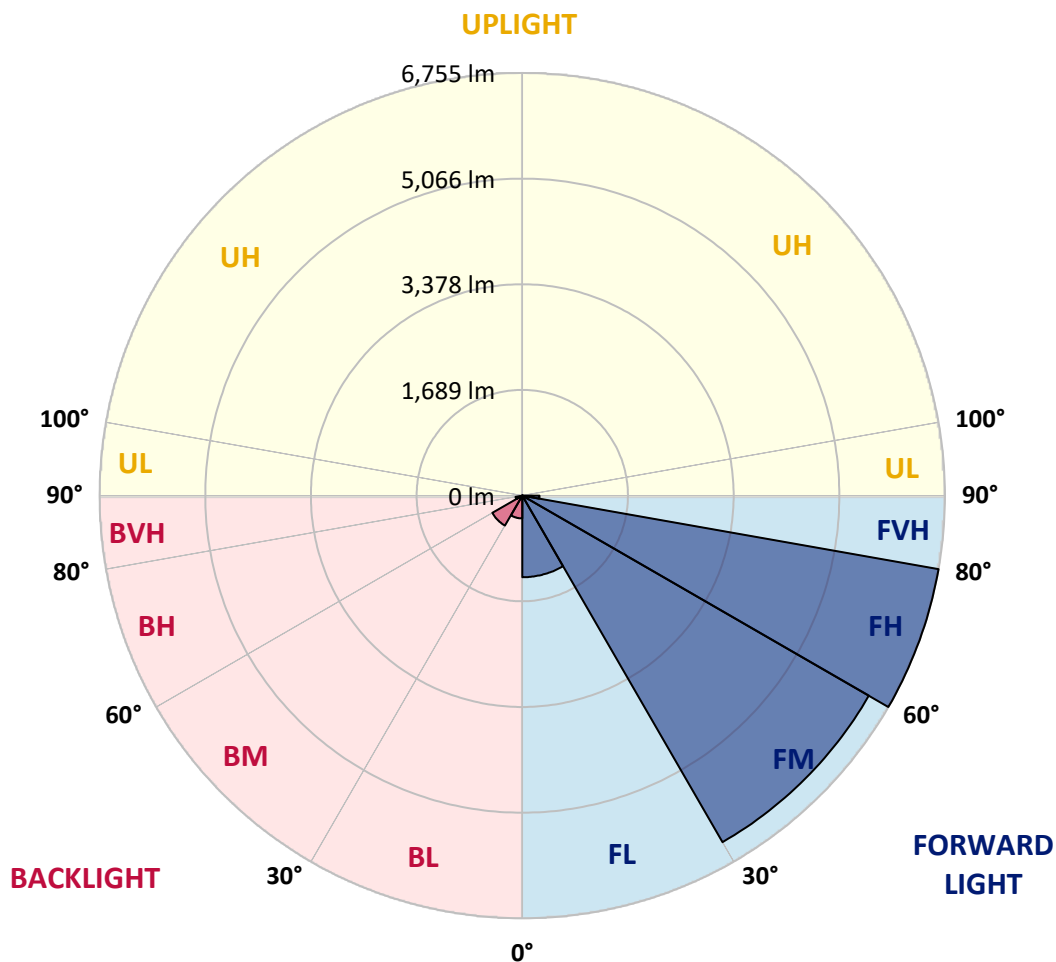
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1303.6	8.3			
FM	(30°-60°)	6394.9	40.6			
FH	(60°-80°)	6755.2	42.9			G3/7500
FVH	(80°-90°)	273.9	1.7			G3/500
BL	(0°-30°)	363.8	2.3	B1/500		
BM	(30°-60°)	552.9	3.5	B1/1000		
BH	(60°-80°)	108.6	0.7	B0/110		G0/110
BVH	(80°-90°)	2.0	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	2458.3	2458.3	2458.3	2458.3	2458.3	2458.3	2458.3	2458.3	2458.3	2458.3	2458.3
2.5°	2840.5	2831.0	2818.3	2803.5	2761.1	2753.7	2728.3	2674.3	2609.7	2556.8	2483.7
5°	2975.0	2980.3	2970.7	2944.3	2913.6	2895.6	2863.8	2780.2	2696.5	2589.6	2470.0
7.5°	3005.7	3016.3	3004.6	2979.2	2949.6	2930.5	2905.1	2833.1	2735.7	2614.0	2449.9
10°	3002.5	3015.2	3007.8	2984.5	2960.1	2942.2	2914.6	2857.5	2779.1	2651.0	2456.2
12.5°	2997.2	3014.1	3013.1	3001.4	2981.3	2967.6	2950.6	2899.8	2826.8	2705.0	2491.1
15°	2982.4	3003.6	3022.6	3032.1	3033.2	3033.2	3012.0	2958.0	2888.2	2775.9	2536.7
17.5°	2988.7	3013.1	3060.7	3088.3	3107.3	3105.2	3083.0	3024.7	2947.4	2849.0	2584.3
20°	3027.9	3060.7	3127.4	3182.5	3201.5	3195.2	3165.5	3097.8	3009.9	2911.4	2630.9
22.5°	3124.2	3153.9	3237.5	3302.1	3315.9	3298.9	3256.6	3164.5	3085.1	2979.2	2687.0
25°	3268.2	3303.2	3380.5	3429.2	3429.2	3419.6	3360.3	3252.4	3169.8	3073.4	2760.1
27.5°	3442.9	3472.6	3548.8	3592.2	3566.8	3539.3	3480.0	3349.8	3270.3	3192.0	2847.9
30°	3619.7	3638.8	3719.2	3738.3	3711.8	3676.9	3613.4	3483.1	3413.3	3352.9	2975.0
32.5°	3787.0	3828.3	3895.0	3890.8	3854.8	3837.8	3779.6	3640.9	3601.7	3595.4	3152.8
35°	3954.3	3986.0	4045.3	4060.1	4028.4	4025.2	3982.9	3880.2	3881.2	3922.5	3430.2
37.5°	4098.3	4126.8	4196.7	4229.5	4235.9	4251.8	4234.8	4167.1	4263.4	4376.7	3797.6
40°	4219.0	4259.2	4348.1	4405.3	4470.9	4529.2	4532.3	4547.2	4740.9	4935.7	4277.2
42.5°	4313.2	4369.3	4498.5	4604.3	4754.7	4828.8	4888.1	4969.6	5295.7	5586.8	4842.5
45°	4436.0	4500.6	4661.5	4827.7	5062.7	5184.5	5267.1	5485.2	5947.8	6344.8	5422.7
47.5°	4639.3	4673.1	4837.2	5079.7	5388.8	5562.5	5723.4	6053.7	6647.6	7003.4	5905.5
50°	4900.8	4923.0	5046.9	5383.5	5783.7	6012.4	6305.7	6694.2	7373.9	7549.6	6178.6
52.5°	5189.8	5197.2	5290.4	5718.1	6226.3	6514.2	6842.4	7322.0	7965.7	7939.3	6359.7
55°	5525.4	5514.8	5594.2	6081.2	6750.3	7079.6	7461.8	7964.7	8479.2	8215.6	6463.4
57.5°	5909.7	5881.1	5958.4	6562.9	7421.5	7815.4	8203.9	8519.4	8877.3	8447.4	6513.2
60°	6312.0	6254.8	6347.0	7103.9	8212.4	8586.1	8909.0	8993.7	9296.5	8631.6	6427.4
62.5°	6632.8	6633.9	6805.4	7679.9	9025.5	9352.6	9524.1	9600.4	9657.5	8591.4	5976.4
65°	7133.6	7150.5	7424.7	8479.2	9966.7	10250.4	10367.9	10120.2	9673.4	8091.7	5298.8
67.5°	7650.2	7704.2	8206.0	9580.3	11054.0	11282.7	11131.3	10220.8	9241.5	6951.5	4017.8
70°	7818.6	7907.5	8734.3	10338.3	11706.1	11824.7	11312.3	9751.8	7725.4	4647.7	2022.1
72.5°	7164.3	7308.3	8430.5	10062.0	11290.1	11187.4	10121.3	8178.5	4911.3	1764.9	617.2
75°	5052.2	5115.7	7006.5	8346.9	9080.5	8789.4	7698.9	5272.4	2020.0	495.5	211.7
77.5°	2608.7	2578.0	4167.1	5538.1	6476.1	6174.4	5041.6	2729.3	765.4	206.4	131.3
80°	1348.8	1371.0	1803.0	2901.9	3953.2	3637.7	2688.1	1265.2	407.6	114.3	100.6
82.5°	755.9	709.3	1036.5	1267.3	1848.5	1449.4	1031.2	895.7	177.9	68.8	95.3
85°	137.6	144.0	568.5	685.0	641.6	407.6	332.4	598.2	51.9	38.1	66.7
87.5°	2.1	2.1	110.1	196.9	124.9	57.2	104.8	85.8	10.6	14.8	11.6
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°	2458.3	2458.3	2458.3	2458.3	2458.3	2458.3	2458.3	2458.3	2458.3	2458.3	2458.3
2.5°	2446.7	2406.4	2331.3	2257.2	2162.9	2085.7	2033.8	1979.8	1924.7	1929.0	1941.7
5°	2404.3	2334.5	2186.2	2029.5	1879.2	1743.7	1610.3	1490.7	1442.0	1397.5	1399.6
7.5°	2362.0	2263.5	2046.5	1800.9	1573.2	1342.4	1175.2	1037.5	964.5	909.4	893.5
10°	2342.9	2212.7	1918.4	1580.7	1257.7	1005.8	790.9	678.6	591.8	564.3	571.7
12.5°	2351.4	2187.3	1803.0	1381.6	997.3	700.9	550.5	493.4	474.3	471.1	469.0
15°	2367.3	2169.3	1689.7	1161.4	732.6	520.9	462.7	452.1	450.0	447.8	448.9
17.5°	2388.4	2153.4	1569.0	955.0	562.2	455.2	438.3	433.0	432.0	432.0	432.0
20°	2409.6	2135.4	1434.5	770.7	469.0	429.8	419.2	416.1	415.0	415.0	414.0
22.5°	2434.0	2119.5	1298.0	605.6	432.0	411.8	402.3	400.2	399.1	398.1	398.1
25°	2468.9	2099.4	1152.9	495.5	408.7	394.9	385.4	383.3	382.2	378.0	379.0
27.5°	2515.5	2084.6	1003.7	427.7	387.5	373.7	367.4	364.2	362.1	358.9	360.0
30°	2579.0	2071.9	844.8	390.7	363.1	351.5	345.1	343.0	340.9	337.7	337.7
32.5°	2689.1	2077.2	677.6	361.0	340.9	327.1	320.8	318.7	316.6	313.4	313.4
35°	2854.3	2107.9	542.1	335.6	314.4	300.7	294.3	294.3	291.1	286.9	285.9
37.5°	3124.2	2186.2	435.1	311.3	289.0	276.3	268.9	266.8	263.6	257.3	256.2
40°	3442.9	2308.0	366.3	286.9	265.7	253.0	246.7	240.3	231.9	225.5	224.4
42.5°	3843.1	2432.9	317.6	262.6	243.5	231.9	224.4	213.9	201.2	192.7	191.6
45°	4260.2	2547.3	284.8	240.3	222.3	212.8	204.3	187.4	171.5	160.9	159.9
47.5°	4571.5	2568.4	258.3	219.2	204.3	194.8	183.2	162.0	140.8	131.3	128.1
50°	4718.7	2465.7	230.8	198.0	186.3	175.7	160.9	136.6	113.3	101.6	99.5
52.5°	4770.5	2287.9	208.6	178.9	168.3	155.6	137.6	110.1	88.9	77.3	76.2
55°	4749.4	2063.4	188.5	160.9	147.2	132.3	114.3	87.9	65.6	56.1	54.0
57.5°	4638.2	1777.6	168.3	142.9	126.0	111.2	91.0	65.6	44.5	36.0	34.9
60°	4338.6	1388.0	148.2	122.8	106.9	91.0	72.0	46.6	27.5	20.1	20.1
62.5°	3832.5	1030.1	129.2	102.7	90.0	73.1	50.8	29.6	14.8	10.6	9.5
65°	3202.6	760.2	108.0	86.8	75.2	57.2	36.0	18.0	7.4	3.2	2.1
67.5°	2234.9	469.0	90.0	70.9	61.4	41.3	22.2	7.4	3.2	0.0	0.0
70°	1015.3	223.4	68.8	54.0	46.6	29.6	11.6	4.2	2.1	0.0	0.0
72.5°	315.5	117.5	48.7	39.2	31.8	19.1	6.4	3.2	2.1	0.0	0.0
75°	146.1	75.2	30.7	21.2	18.0	9.5	4.2	2.1	1.1	0.0	0.0
77.5°	109.0	58.2	18.0	11.6	9.5	6.4	3.2	2.1	1.1	0.0	0.0
80°	95.3	29.6	10.6	7.4	5.3	4.2	2.1	1.1	0.0	0.0	0.0
82.5°	85.8	14.8	6.4	4.2	3.2	2.1	1.1	1.1	0.0	0.0	0.0
85°	46.6	8.5	4.2	3.2	2.1	1.1	1.1	0.0	0.0	0.0	0.0
87.5°	8.5	4.2	3.2	2.1	2.1	1.1	1.1	1.1	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)