

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: P453258

Luminaire Tested: **GALN-SA4B-730-U-T3R-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P453258
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-SA4B-730-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 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: 16050 lumens
Efficiency: N/A
Efficacy: 97.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

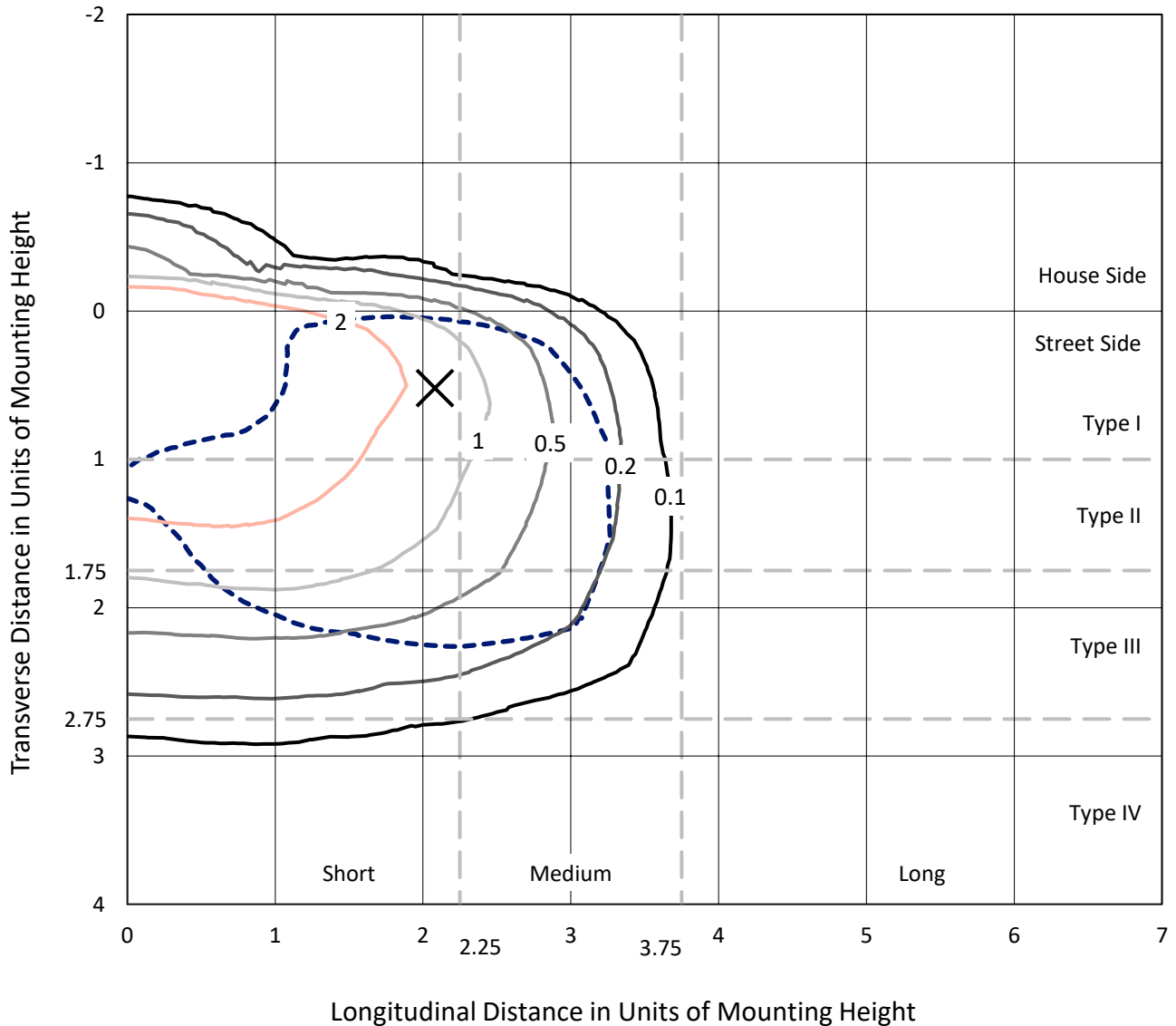
Input Watts (W): 164
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

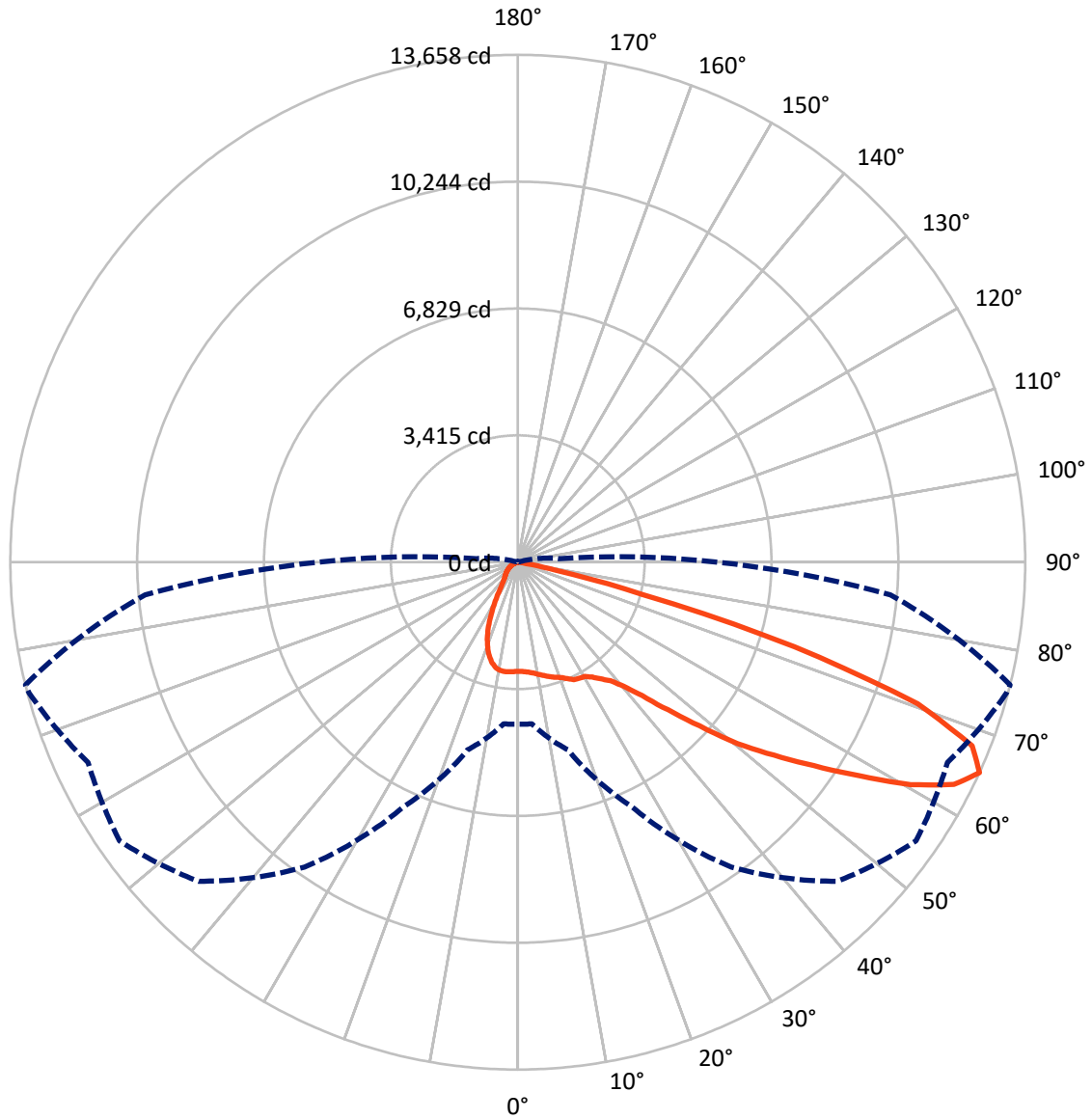
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.9 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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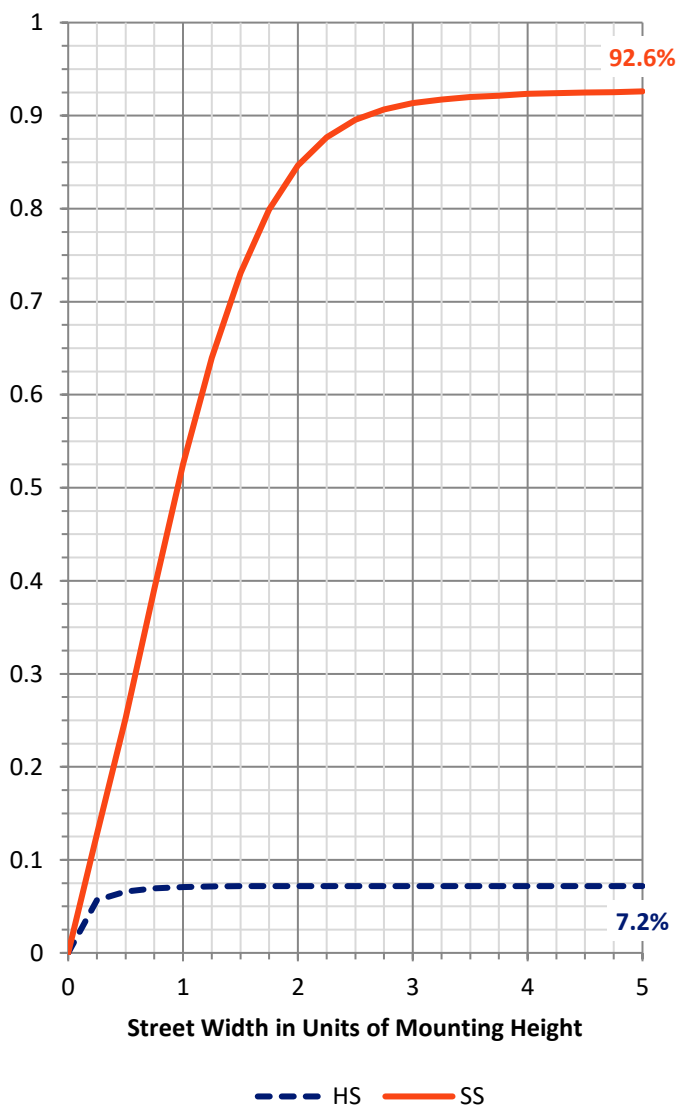
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1159.1	0.0	1159.1
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	14890.9	0.0	14890.9
	% Fixture	92.8	0.0	92.8
Total	Lumens	16050.0	0.0	16050.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	241.9	1.5
10°-20°	538.5	3.4
20°-30°	867.8	5.4
30°-40°	1508.9	9.4
40°-50°	2493.3	15.5
50°-60°	3851.6	24.0
60°-70°	4703.4	29.3
70°-80°	1785.1	11.1
80°-90°	59.6	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°	16050.0	100.0
0°-180°	16050.0	100.0

Coefficient of Utilization



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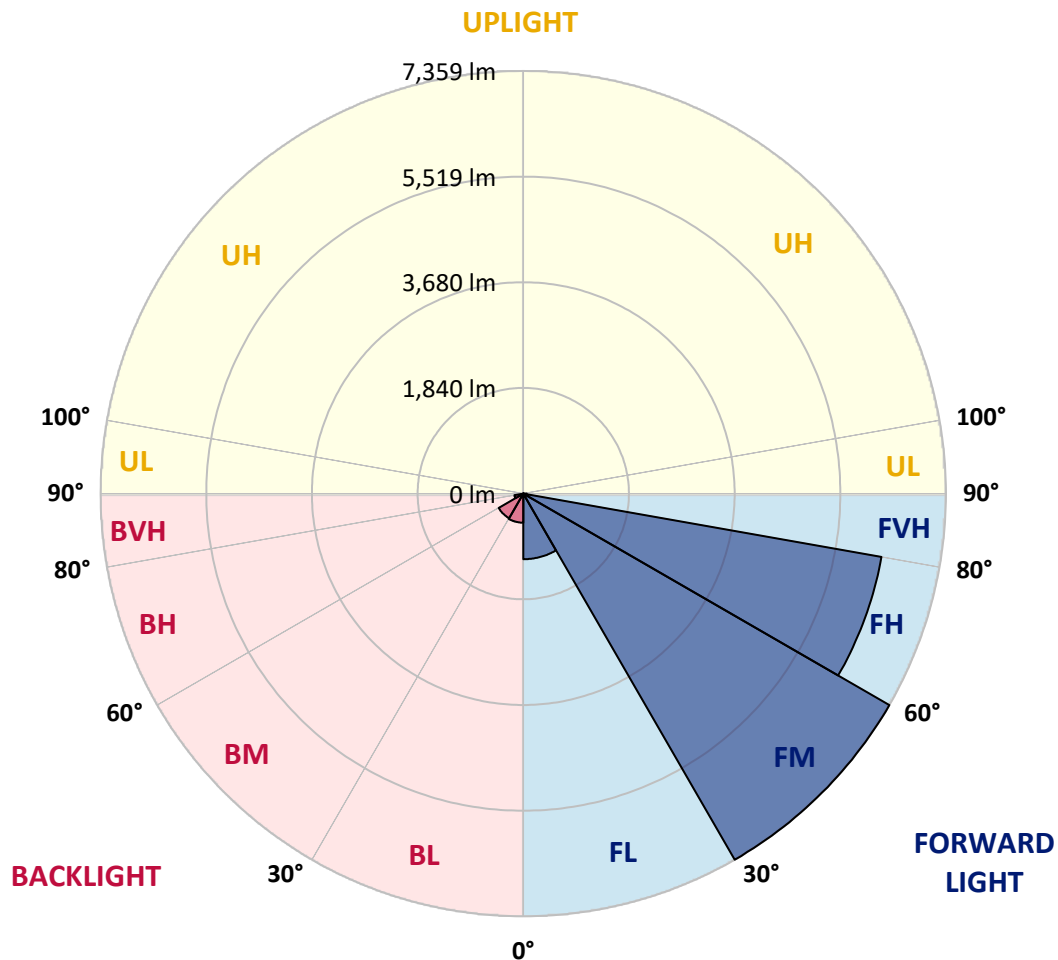
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1141.8	7.1			
FM (30°-60°)	7359.2	45.9			
FH (60°-80°)	6331.2	39.4			G3/7500
FVH (80°-90°)	58.8	0.4			G1/100
BL (0°-30°)	506.4	3.2	B2/1000		
BM (30°-60°)	494.6	3.1	B1/1000		
BH (60°-80°)	157.3	1.0	B1/500		G1/500
BVH (80°-90°)	0.8	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-G3

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2936.1	2936.1	2936.1	2936.1	2936.1	2936.1	2936.1	2936.1	2936.1	2936.1	2936.1
2.5°	2805.7	2806.9	2813.7	2830.7	2856.7	2878.3	2896.4	2925.9	2946.3	2948.5	2955.3
5°	2612.0	2598.4	2612.0	2656.2	2695.8	2755.9	2829.5	2903.2	2968.9	2973.5	3005.2
7.5°	2394.4	2405.7	2427.3	2472.6	2547.4	2639.2	2745.7	2877.1	3001.8	3013.1	3075.4
10°	2173.4	2198.4	2233.5	2302.6	2406.9	2525.8	2670.9	2859.0	3053.9	3069.8	3177.4
12.5°	1969.5	1980.8	2023.9	2116.8	2246.0	2413.7	2614.2	2848.8	3111.7	3131.0	3286.2
15°	1813.1	1827.8	1865.2	1949.1	2093.0	2308.3	2567.8	2845.4	3168.4	3195.6	3395.0
17.5°	1783.6	1792.7	1808.5	1865.2	1991.0	2224.4	2525.8	2844.3	3222.8	3255.6	3495.8
20°	1904.9	1896.9	1881.1	1875.4	1944.5	2159.8	2495.3	2853.3	3274.9	3312.3	3602.4
22.5°	2208.6	2218.8	2125.8	2015.9	1993.3	2149.6	2490.7	2896.4	3357.6	3401.8	3721.3
25°	2853.3	2775.1	2630.1	2367.2	2168.9	2212.0	2541.7	2998.4	3453.9	3502.6	3829.0
27.5°	3566.1	3542.3	3316.8	2883.9	2514.5	2343.4	2632.4	3076.6	3485.6	3535.5	3890.2
30°	4266.4	4294.7	4036.4	3558.2	3016.5	2587.0	2717.4	3106.0	3514.0	3566.1	3968.4
32.5°	4915.7	4949.7	4723.1	4249.4	3608.0	3008.6	2863.5	3220.5	3633.0	3686.2	4098.7
35°	5426.8	5431.3	5260.2	4882.9	4253.9	3520.8	3179.7	3421.1	3793.9	3856.2	4236.9
37.5°	5895.9	5889.1	5688.5	5363.3	4792.2	4029.6	3577.4	3652.2	3977.4	4042.0	4436.4
40°	6243.8	6248.3	6183.7	5877.8	5294.2	4499.8	3892.5	3868.7	4285.7	4386.5	4726.5
42.5°	6476.1	6518.0	6549.8	6394.5	5925.4	5078.9	4376.3	4332.1	4820.5	4904.4	5136.7
45°	6664.2	6739.0	6897.6	6889.7	6531.6	5789.4	5040.4	4949.7	5578.6	5668.1	5659.1
47.5°	6801.3	6877.2	7140.1	7298.8	7101.6	6478.4	5875.5	5797.3	6484.0	6581.5	6235.9
50°	6871.6	6962.2	7297.6	7604.7	7546.9	7142.4	6827.4	6831.9	7577.5	7671.6	6904.4
52.5°	6707.3	6825.1	7381.5	7934.5	8046.7	7778.1	7719.2	7868.8	8550.9	8631.4	7508.4
55°	6182.6	6331.1	7267.1	8215.5	8625.7	8528.3	8732.2	8960.0	9615.0	9667.1	8128.3
57.5°	5850.6	6008.1	6929.4	8454.6	9321.5	9471.1	9794.0	9960.6	10713.0	10845.6	8839.9
60°	5570.7	5694.2	6651.7	8505.6	10028.6	10624.7	10938.5	11110.8	12068.3	12154.4	9622.9
62.5°	5105.0	5246.6	6182.6	8149.8	10384.4	11548.2	12198.6	12121.6	13116.5	13176.6	10103.4
65°	4355.9	4368.4	5230.7	7255.7	10017.3	12147.6	13083.6	12760.7	13617.4	13658.2	10066.0
67.5°	3251.1	3371.2	4023.9	5703.3	8461.4	11635.4	13370.3	12777.7	13301.2	13187.9	9267.1
70°	2094.1	2185.9	2727.6	3954.8	6101.0	9710.2	12419.6	11901.7	11674.0	11422.4	7585.5
72.5°	966.6	1084.4	1620.4	2259.6	3618.2	6916.9	10081.9	9669.4	8402.5	7781.5	4821.7
75°	421.5	451.0	800.0	1192.1	1696.4	3657.9	6647.2	6002.4	3795.0	3466.4	1929.8
77.5°	257.2	276.5	419.3	639.1	666.3	1393.8	3580.8	2618.8	1172.8	1034.6	523.5
80°	174.5	196.0	304.8	334.3	227.8	388.7	1343.9	699.2	236.8	226.6	112.2
82.5°	85.0	107.7	225.5	187.0	98.6	124.6	390.9	149.6	69.1	64.6	39.7
85°	12.5	21.5	126.9	122.4	44.2	29.5	69.1	37.4	23.8	22.7	18.1
87.5°	0.0	0.0	43.1	19.3	4.5	4.5	7.9	7.9	9.1	7.9	9.1
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°	2936.1	2936.1	2936.1	2936.1	2936.1	2936.1	2936.1	2936.1	2936.1	2936.1	2936.1
2.5°	2958.7	2964.4	2942.9	2912.3	2879.4	2846.5	2800.1	2758.1	2733.2	2748.0	2711.7
5°	3012.0	3007.4	2950.8	2857.9	2734.4	2585.9	2438.6	2312.8	2272.0	2210.8	2204.0
7.5°	3085.6	3073.2	2953.1	2740.0	2461.3	2182.5	1910.5	1730.4	1627.2	1540.0	1542.3
10°	3188.8	3152.5	2927.0	2532.6	2073.7	1653.3	1306.6	1068.6	965.5	932.6	906.5
12.5°	3295.3	3225.0	2854.5	2252.8	1614.8	1129.8	794.4	649.3	585.9	565.5	563.2
15°	3390.5	3279.4	2727.6	1916.2	1174.0	721.8	541.7	494.1	486.1	487.3	486.1
17.5°	3484.5	3322.5	2551.9	1559.2	797.8	517.9	465.7	454.4	457.8	462.3	461.2
20°	3562.7	3331.5	2327.5	1189.8	564.3	454.4	437.4	435.1	438.5	441.9	441.9
22.5°	3647.7	3338.3	2061.2	823.8	461.2	422.7	413.6	413.6	418.1	422.7	423.8
25°	3711.1	3300.9	1742.8	591.5	406.8	392.1	387.5	388.7	393.2	395.5	394.3
27.5°	3721.3	3195.6	1405.1	453.3	369.4	354.7	350.2	354.7	349.0	352.4	350.2
30°	3730.4	3061.8	1062.9	381.9	335.4	312.8	306.0	299.2	294.6	289.0	287.8
32.5°	3758.7	2904.3	776.2	343.4	303.7	278.8	262.9	243.6	228.9	224.4	223.2
35°	3771.2	2715.1	570.0	312.8	275.4	248.2	219.8	192.6	171.1	163.2	168.8
37.5°	3818.8	2531.5	441.9	290.1	250.4	216.4	180.2	146.2	125.8	121.2	123.5
40°	3916.3	2332.1	370.5	270.8	228.9	187.0	142.8	109.9	96.3	91.8	90.7
42.5°	4072.6	2133.8	329.8	252.7	207.4	157.5	112.2	86.1	74.8	71.4	71.4
45°	4263.0	1943.4	301.4	233.4	184.7	126.9	88.4	69.1	62.3	60.1	60.1
47.5°	4513.4	1776.8	277.6	214.2	159.8	100.9	71.4	60.1	55.5	56.7	57.8
50°	4767.3	1653.3	251.6	192.6	131.4	82.7	61.2	53.3	52.1	53.3	53.3
52.5°	4958.8	1580.8	216.4	163.2	103.1	69.1	54.4	49.9	48.7	46.5	46.5
55°	5217.1	1564.9	172.2	132.6	81.6	57.8	48.7	45.3	41.9	39.7	38.5
57.5°	5549.2	1583.0	132.6	103.1	63.5	47.6	43.1	37.4	32.9	28.3	28.3
60°	5755.4	1542.3	103.1	79.3	46.5	38.5	32.9	27.2	21.5	18.1	17.0
62.5°	5689.7	1370.0	81.6	58.9	32.9	28.3	21.5	18.1	12.5	9.1	7.9
65°	5350.9	1106.0	65.7	40.8	23.8	17.0	11.3	11.3	5.7	1.1	0.0
67.5°	4683.4	819.3	52.1	27.2	13.6	7.9	5.7	3.4	0.0	0.0	0.0
70°	3812.0	591.5	40.8	17.0	7.9	5.7	2.3	1.1	0.0	0.0	0.0
72.5°	2420.5	338.8	31.7	10.2	5.7	2.3	0.0	0.0	0.0	0.0	0.0
75°	936.0	132.6	21.5	6.8	2.3	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	265.2	62.3	12.5	3.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	69.1	27.2	6.8	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	32.9	11.3	2.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	19.3	4.5	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	9.1	1.1	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)