

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: P532557

Luminaire Tested: **GALN-SA7D-830-U-T2R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P532557
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-9)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA7D-830-U-T2R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28318 lumens
Efficiency: N/A
Efficacy: 65.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B3 - U0 - G1

Input Watts (W): 433
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



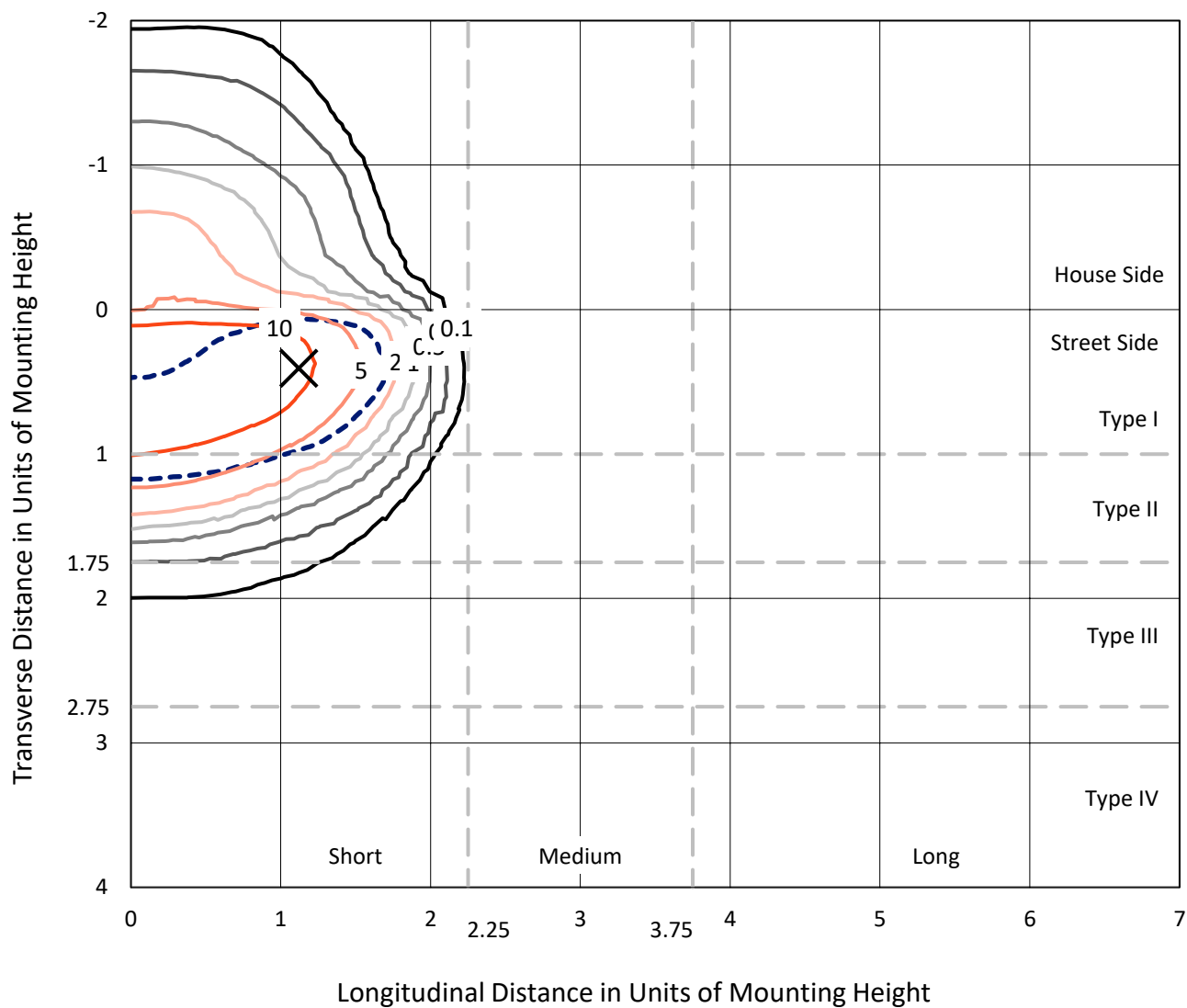
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd



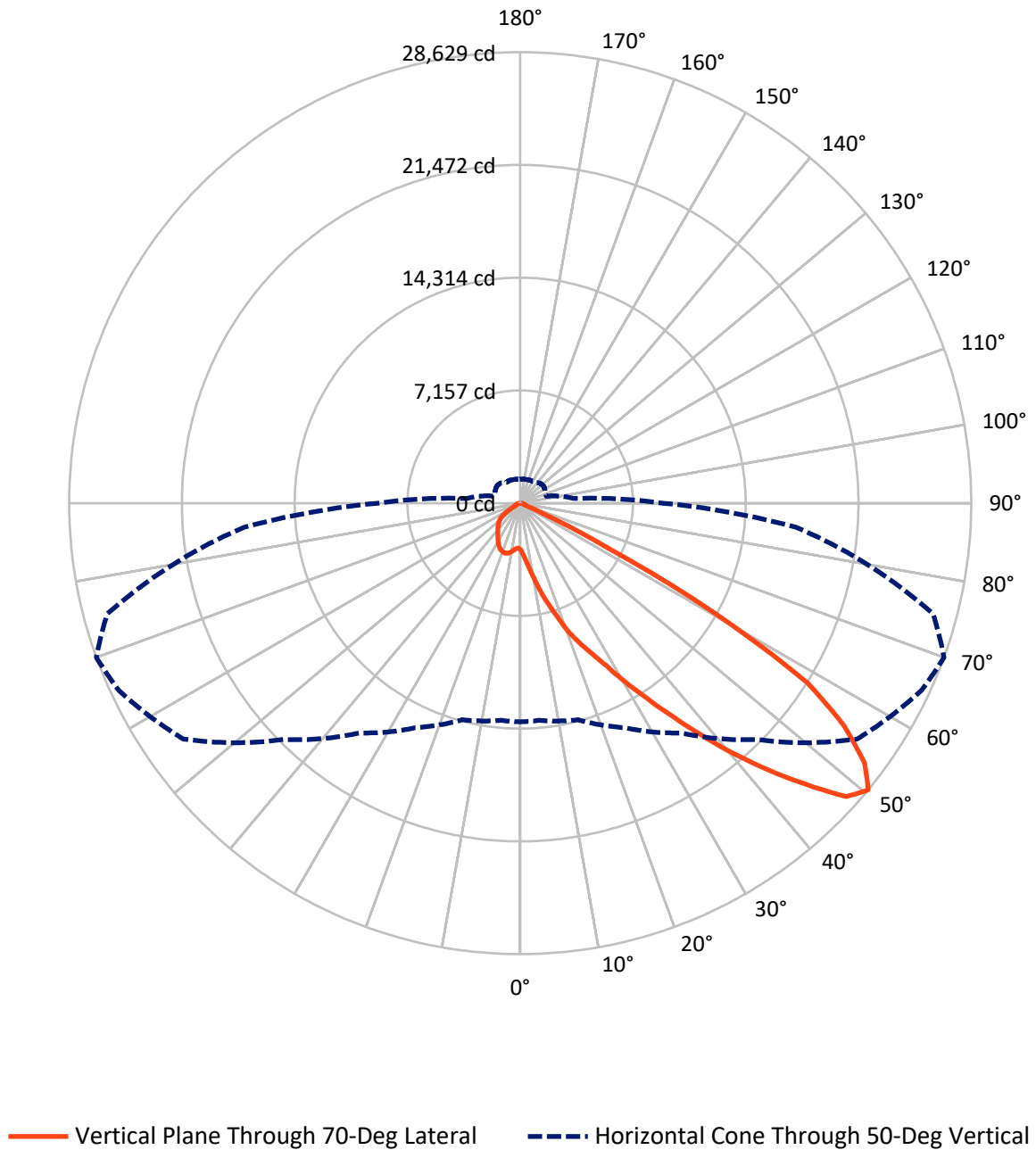
Based on 25 foot mounting height. Maximum calculated value = 16.8 fc

Type I - Short - N/A

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Luminous Intensity Polar Plot



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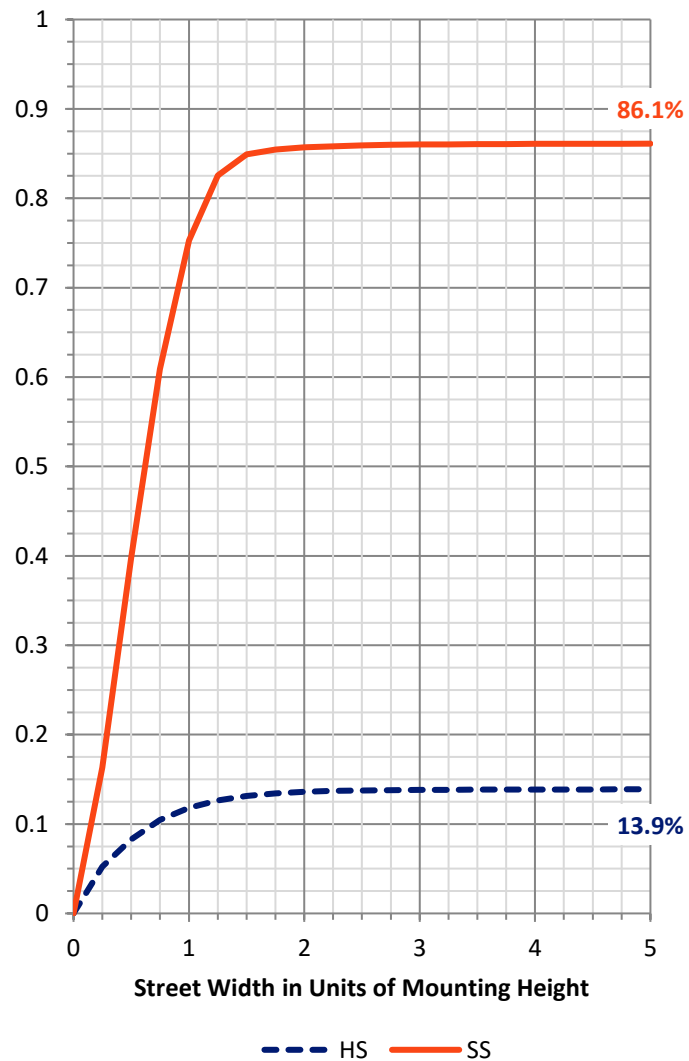
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3954.8	0.0	3954.8
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	24363.2	0.0	24363.2
	% Fixture	86.0	0.0	86.0
Total	Lumens	28318.0	0.0	28318.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	381.4	1.3
10°-20°	1649.9	5.8
20°-30°	3461.2	12.2
30°-40°	5965.9	21.1
40°-50°	8719.2	30.8
50°-60°	6790.8	24.0
60°-70°	1150.6	4.1
70°-80°	158.1	0.6
80°-90°	40.9	0.1
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°	28318.0	100.0
0°-180°	28318.0	100.0

Coefficient of Utilization



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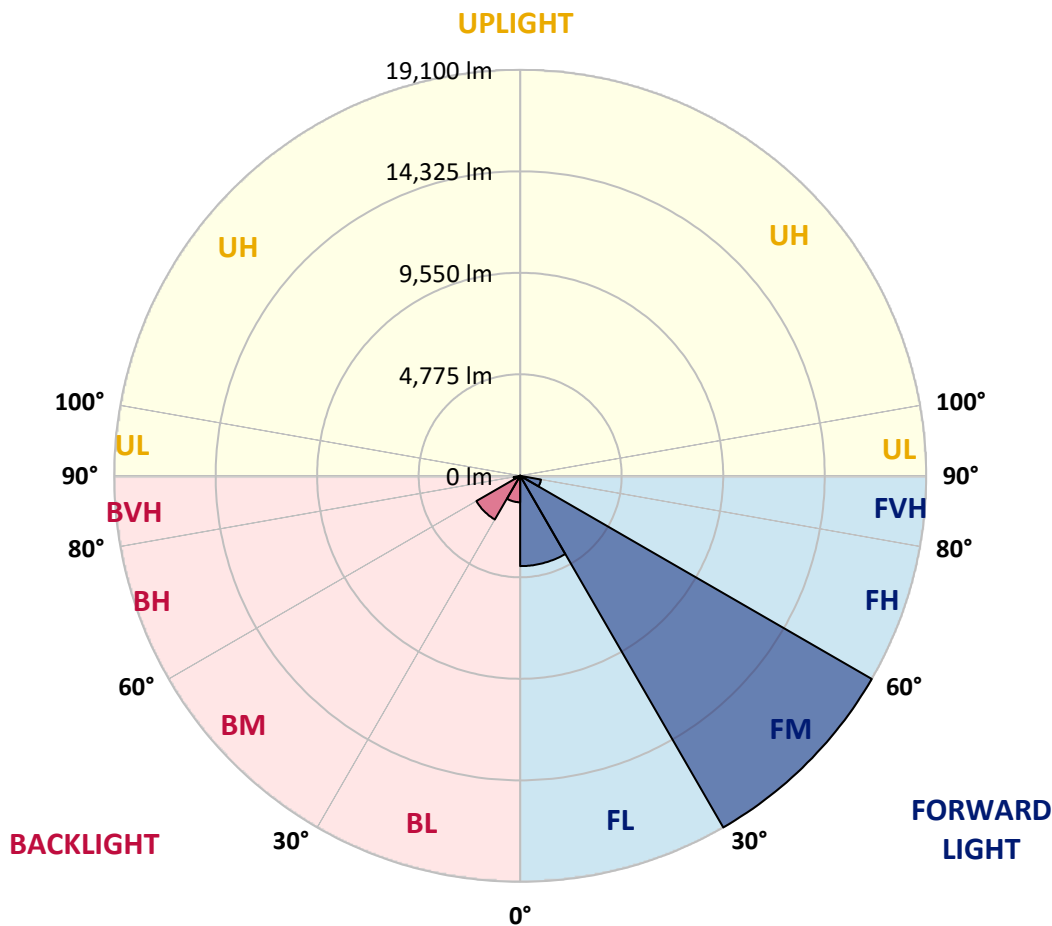
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4248.0	15.0			
FM	(30°-60°)	19100.0	67.4			
FH	(60°-80°)	996.2	3.5			G1/1800
FVH	(80°-90°)	18.9	0.1			G1/100
BL	(0°-30°)	1244.5	4.4	B3/2500		
BM	(30°-60°)	2375.9	8.4	B2/2500		
BH	(60°-80°)	312.4	1.1	B1/500		G1/500
BVH	(80°-90°)	22.0	0.1			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G1

Type I Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	2933.2	2933.2	2933.2	2933.2	2933.2	2933.2	2933.2	2933.2	2933.2	2933.2	2933.2
2.5°	3841.1	3813.1	3752.6	3640.9	3594.3	3482.6	3417.4	3291.7	3212.5	3124.1	3026.3
5°	5410.1	5265.8	5177.3	5051.6	4683.8	4455.7	4078.5	3757.3	3608.3	3445.3	3221.9
7.5°	7030.3	6937.2	6816.2	6546.1	6294.7	5819.8	5172.7	4465.0	4162.3	3883.0	3440.7
10°	8371.2	8110.5	8096.5	7896.3	7621.6	7053.6	6276.1	5396.1	4856.1	4446.3	3752.6
12.5°	9307.0	9069.6	9176.7	9153.4	8897.3	8375.9	7477.3	6313.3	5750.0	5112.1	4073.9
15°	10159.1	10061.3	10028.7	10000.8	9898.3	9511.9	8706.4	7430.7	6616.0	5847.8	4437.0
17.5°	10992.5	10741.1	10862.1	10885.4	10876.1	10526.9	9772.6	8492.3	7533.2	6625.3	4818.8
20°	11732.7	11756.0	11593.1	11560.5	11532.5	11518.6	10783.0	9544.5	8659.9	7440.1	5317.0
22.5°	12682.5	12519.6	12663.9	12570.8	12389.2	12277.5	11714.1	10475.7	9637.6	8422.4	5824.5
25°	13804.6	13935.0	13595.1	13557.8	13357.6	12971.2	12463.7	11518.6	10578.1	9335.0	6373.9
27.5°	15187.4	14959.3	14870.8	14665.9	14302.8	14139.8	13543.9	12594.1	11714.1	10294.1	6904.6
30°	16374.6	16314.1	15871.8	15629.7	15313.1	15308.4	14475.0	14051.4	13194.7	11797.9	7635.6
32.5°	17343.1	17077.7	16914.7	16747.1	16491.0	16560.9	15857.8	15634.4	14773.0	13194.7	8496.9
35°	17990.2	17799.3	17701.6	17445.5	17371.0	17682.9	17389.6	17296.5	16588.8	15159.5	9507.3
37.5°	18195.1	18255.6	18237.0	17915.7	18074.0	18916.7	19293.9	19051.7	18679.3	17231.3	10601.4
40°	18376.7	18418.6	18325.4	18702.6	19154.2	20113.3	21477.4	21077.0	20937.4	19331.1	12123.8
42.5°	18479.1	18446.5	18446.5	19098.3	19782.7	21710.2	23586.5	23321.2	23214.1	21565.9	13883.8
45°	18036.8	17720.2	18060.1	18944.7	20322.8	22497.1	25272.0	25639.8	25486.1	24224.4	15941.6
47.5°	16383.9	16579.5	16770.4	17953.0	19666.3	22255.0	26305.6	27558.0	27842.0	26459.2	17291.8
50°	13883.8	13841.8	14237.6	15727.5	17808.6	21212.1	26105.4	28112.0	28628.8	27129.7	17575.8
52.5°	10098.5	10405.8	10834.2	12314.7	14782.3	18511.7	23521.4	26682.7	27371.8	26305.6	17389.6
55°	5880.3	5540.5	6504.2	7756.7	10084.6	13962.9	19885.1	23651.7	24927.4	24806.4	16449.1
57.5°	2355.9	2281.4	2611.9	3519.8	5261.1	8655.2	14461.1	19433.5	21477.4	22720.6	14456.4
60°	1033.6	1010.3	1187.2	1434.0	2151.0	3990.1	7910.3	12086.6	14219.0	15876.5	9949.6
62.5°	744.9	735.6	824.1	912.5	1136.0	1736.6	3324.3	4870.0	6071.2	7333.0	4455.7
65°	600.6	623.9	684.4	731.0	838.1	963.8	1173.3	1354.9	1662.1	1722.7	982.4
67.5°	488.9	507.5	563.4	614.6	633.2	521.5	540.1	474.9	474.9	423.7	339.9
70°	358.5	363.2	428.3	488.9	391.1	209.5	367.8	367.8	330.6	316.6	288.7
72.5°	265.4	270.0	321.3	302.6	153.6	130.4	270.0	298.0	270.0	256.1	232.8
75°	195.5	200.2	167.6	69.8	65.2	83.8	158.3	204.9	195.5	190.9	176.9
77.5°	37.2	27.9	23.3	32.6	46.6	69.8	102.4	125.7	130.4	139.7	130.4
80°	4.7	4.7	14.0	27.9	51.2	74.5	107.1	121.1	125.7	130.4	121.1
82.5°	0.0	4.7	14.0	27.9	51.2	69.8	93.1	107.1	116.4	121.1	116.4
85°	0.0	4.7	9.3	23.3	41.9	51.2	46.6	32.6	27.9	32.6	23.3
87.5°	0.0	0.0	4.7	4.7	9.3	9.3	9.3	9.3	9.3	9.3	9.3
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°	2933.2	2933.2	2933.2	2933.2	2933.2	2933.2	2933.2	2933.2	2933.2	2933.2	2933.2
2.5°	2970.4	2951.8	2886.6	2816.8	2756.3	2784.2	2756.3	2733.0	2742.3	2733.0	2723.7
5°	3133.4	3049.6	2909.9	2849.4	2798.2	2793.5	2779.5	2774.9	2779.5	2779.5	2737.6
7.5°	3287.0	3152.0	3003.0	2937.8	2877.3	2882.0	2849.4	2849.4	2844.7	2821.4	2812.1
10°	3519.8	3338.2	3147.4	3031.0	2956.5	2942.5	2909.9	2877.3	2877.3	2877.3	2830.8
12.5°	3775.9	3547.8	3287.0	3152.0	3063.6	2993.7	2942.5	2933.2	2882.0	2872.7	2849.4
15°	3999.4	3710.7	3380.1	3193.9	3082.2	2989.1	2909.9	2858.7	2835.4	2821.4	2802.8
17.5°	4218.2	3850.4	3431.4	3193.9	3072.9	2965.8	2882.0	2835.4	2779.5	2788.9	2751.6
20°	4511.5	3999.4	3445.3	3133.4	2984.4	2882.0	2770.2	2747.0	2714.4	2686.4	2695.7
22.5°	4795.5	4106.5	3403.4	3058.9	2844.7	2723.7	2667.8	2639.9	2625.9	2602.6	2570.0
25°	5051.6	4222.9	3338.2	2923.9	2695.7	2607.3	2556.1	2551.4	2518.8	2518.8	2458.3
27.5°	5312.3	4264.8	3226.5	2765.6	2565.4	2514.2	2490.9	2481.6	2467.6	2435.0	2393.1
30°	5610.3	4278.7	3063.6	2602.6	2449.0	2393.1	2425.7	2449.0	2388.5	2327.9	2346.5
32.5°	5857.1	4246.1	2868.0	2449.0	2365.2	2337.2	2402.4	2425.7	2355.9	2290.7	2258.1
35°	6155.0	4167.0	2677.1	2327.9	2281.4	2337.2	2393.1	2393.1	2253.4	2174.3	2155.7
37.5°	6606.7	4078.5	2500.2	2225.5	2192.9	2309.3	2383.8	2332.6	2113.8	2016.0	1992.7
40°	7090.9	4022.7	2327.9	2123.1	2146.3	2262.7	2304.6	2146.3	1922.9	1862.3	1843.7
42.5°	7793.9	3910.9	2174.3	2034.6	2104.4	2197.6	2197.6	1913.6	1829.8	1797.2	1792.5
45°	8669.2	3831.8	2039.3	1960.1	2043.9	2067.2	1992.7	1792.5	1732.0	1722.7	1727.3
47.5°	9097.5	3678.1	1899.6	1871.7	1932.2	1936.8	1741.3	1694.7	1643.5	1629.5	1620.2
50°	9032.4	3403.4	1718.0	1755.3	1839.1	1792.5	1587.6	1597.0	1550.4	1545.7	1522.5
52.5°	8576.1	2970.4	1536.4	1624.9	1718.0	1583.0	1461.9	1452.6	1452.6	1392.1	1368.8
55°	7603.0	2393.1	1317.6	1429.3	1541.1	1331.6	1299.0	1289.7	1266.4	1210.5	1196.6
57.5°	6020.0	1755.3	991.7	1112.7	1308.3	1131.4	1126.7	1084.8	1024.3	982.4	982.4
60°	3580.4	1010.3	623.9	679.8	866.0	917.2	1019.6	1001.0	898.6	833.4	814.8
62.5°	1634.2	521.5	395.7	405.1	465.6	595.9	800.8	926.5	782.2	670.4	661.1
65°	549.4	386.4	325.9	311.9	321.3	358.5	479.6	656.5	623.9	516.8	498.2
67.5°	335.2	344.5	307.3	284.0	284.0	279.4	274.7	298.0	367.8	358.5	363.2
70°	288.7	316.6	284.0	256.1	246.8	232.8	195.5	163.0	139.7	163.0	172.3
72.5°	232.8	251.4	242.1	218.8	195.5	176.9	139.7	107.1	79.1	69.8	69.8
75°	172.3	186.2	195.5	167.6	149.0	125.7	102.4	69.8	41.9	27.9	27.9
77.5°	125.7	139.7	144.3	130.4	111.7	88.5	65.2	46.6	23.3	9.3	9.3
80°	107.1	125.7	139.7	130.4	116.4	83.8	60.5	32.6	18.6	4.7	4.7
82.5°	102.4	125.7	139.7	125.7	111.7	79.1	60.5	37.2	14.0	4.7	4.7
85°	23.3	32.6	41.9	51.2	60.5	60.5	46.6	27.9	14.0	4.7	4.7
87.5°	9.3	9.3	9.3	9.3	9.3	9.3	9.3	9.3	4.7	4.7	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)