

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: P648066

Luminaire Tested: **GALN-SA7A-835-U-T3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P648066
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-15)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA7A-835-U-T3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14893.4 lumens
Efficiency: N/A
Efficacy: 69.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G1

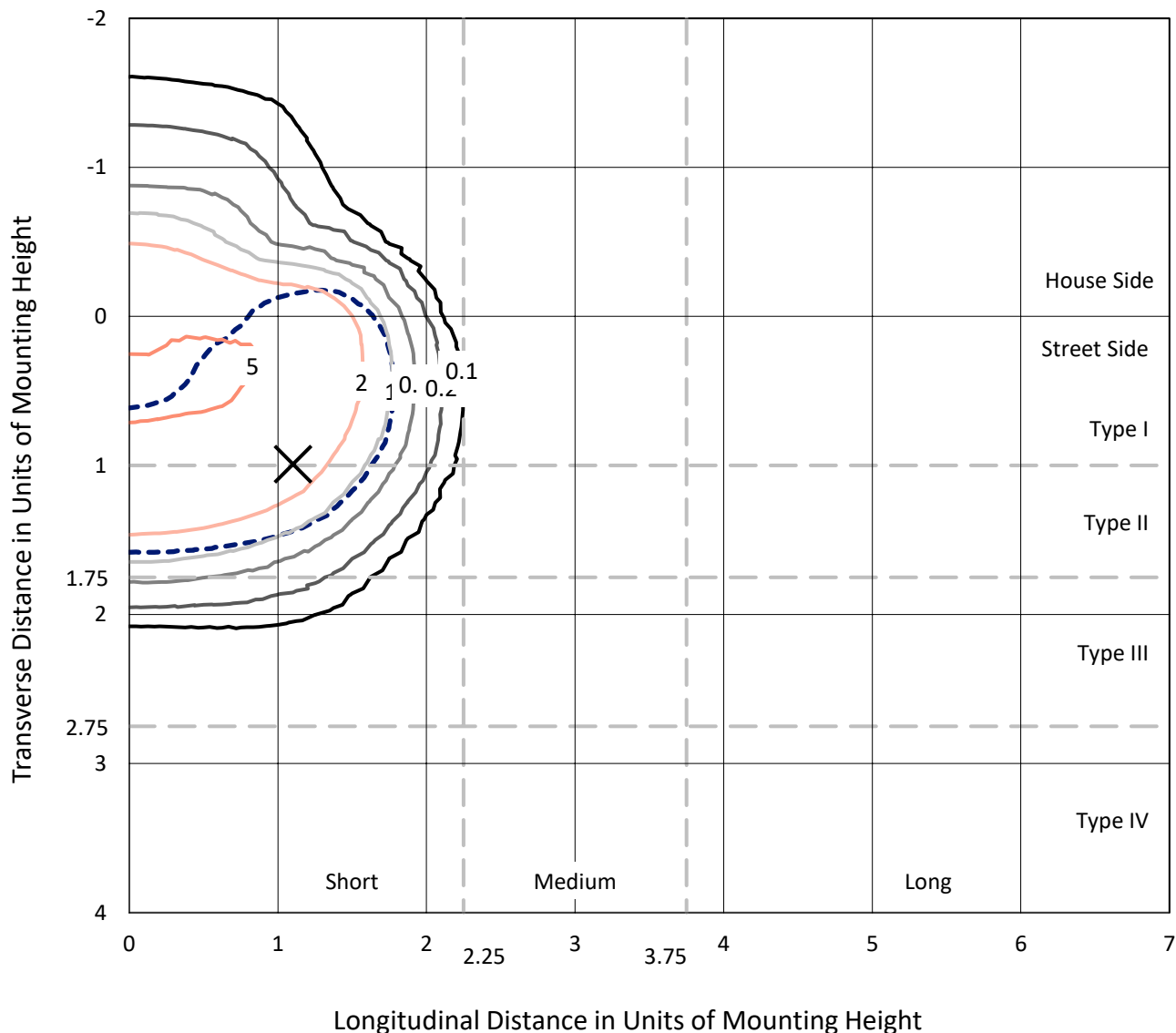
Input Watts (W): 215
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

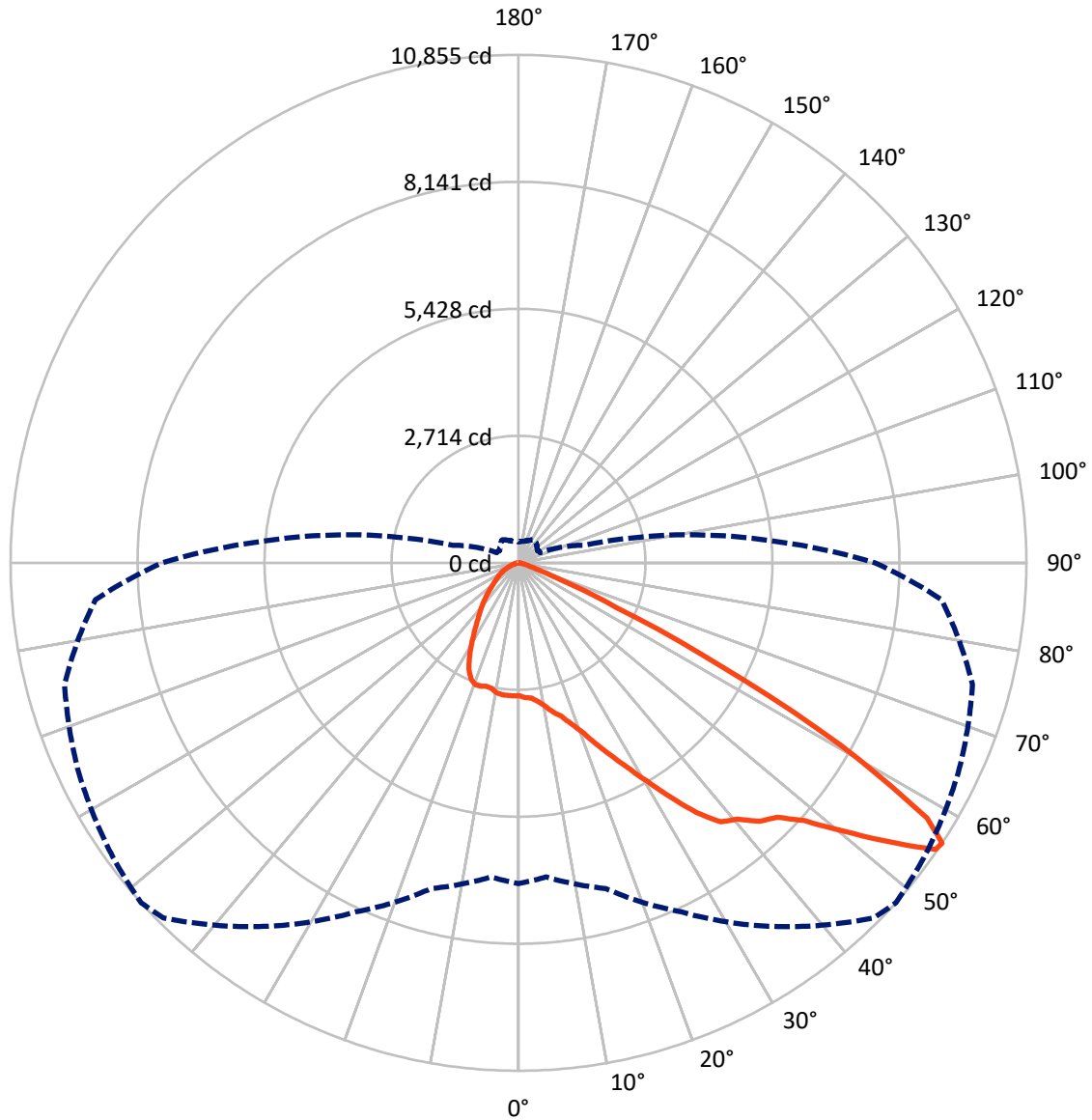
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 48-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical



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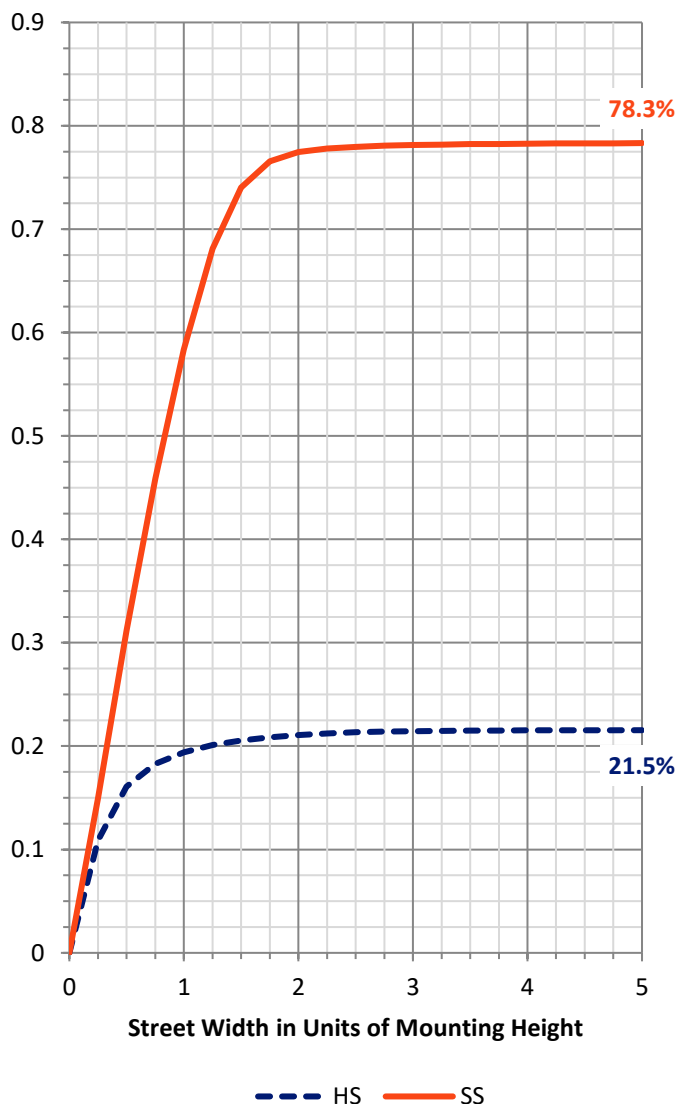
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3239.0	0.0	3239.0
	% Fixture	21.7	0.0	21.7
Street Side	Lumens	11654.4	0.0	11654.4
	% Fixture	78.3	0.0	78.3
Total	Lumens	14893.4	0.0	14893.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	277.1	1.9
10°-20°	885.6	5.9
20°-30°	1606.2	10.8
30°-40°	2523.1	16.9
40°-50°	3680.7	24.7
50°-60°	4434.5	29.8
60°-70°	1298.4	8.7
70°-80°	164.7	1.1
80°-90°	23.1	0.2
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°	14893.4	100.0
0°-180°	14893.4	100.0

Coefficient of Utilization



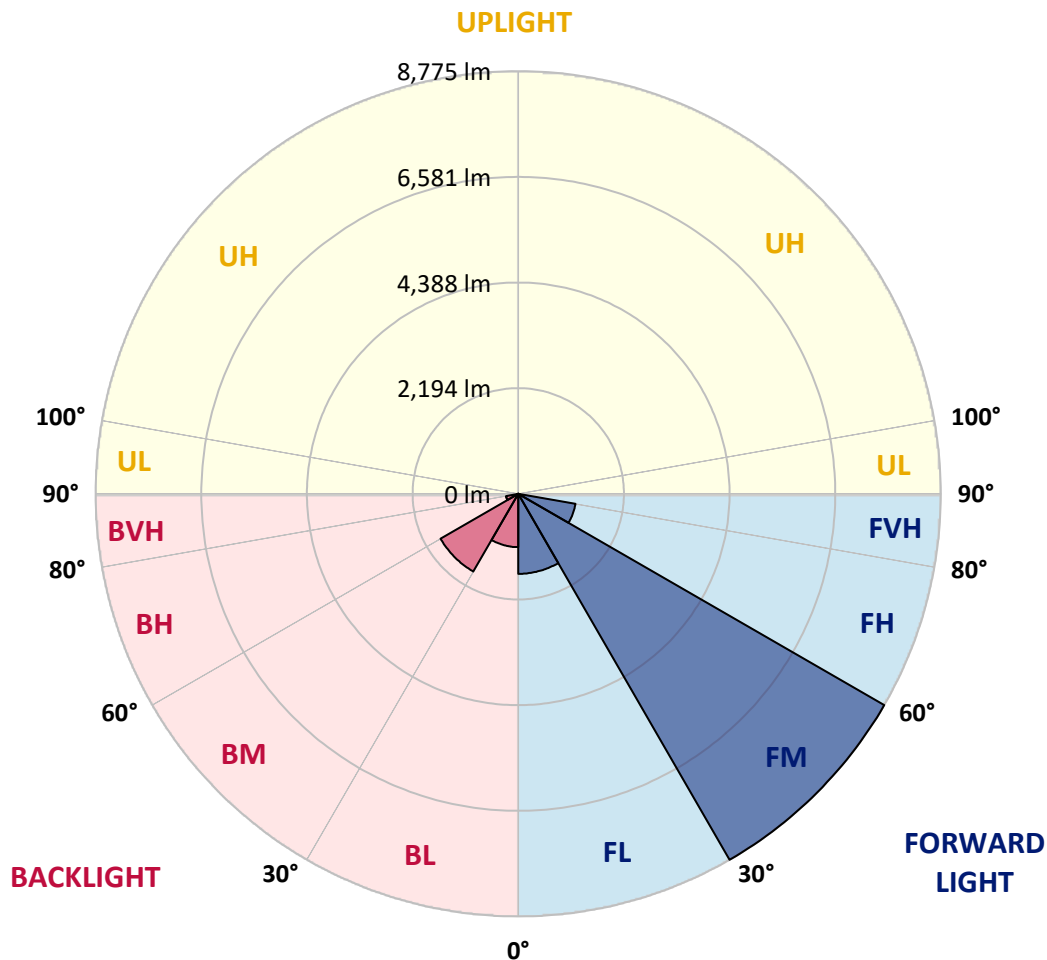
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1661.8	11.2			
FM (30°-60°)	8775.3	58.9			
FH (60°-80°)	1205.7	8.1			G1/1800
FVH (80°-90°)	11.6	0.1			G1/100
BL (0°-30°)	1107.1	7.4	B3/2500		
BM (30°-60°)	1863.1	12.5	B2/2500		
BH (60°-80°)	257.4	1.7	B1/500		G1/500
BVH (80°-90°)	11.5	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 II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	48°	55°	65°	75°	85°
0°	2844.6	2844.6	2844.6	2844.6	2844.6	2844.6	2844.6	2844.6	2844.6	2844.6	2844.6
2.5°	2896.2	2882.6	2882.6	2860.9	2885.4	2874.5	2882.6	2855.5	2882.6	2842.0	2874.5
5°	2909.7	2912.4	2901.6	2915.2	2915.2	2931.4	2904.3	2928.7	2942.3	2912.4	2898.9
7.5°	2980.3	2985.7	2982.9	2972.1	2993.8	2991.1	2988.4	2969.4	2974.9	2964.0	2947.7
10°	3118.5	3115.9	3129.4	3102.2	3086.0	3105.0	3110.4	3080.6	3058.9	3050.7	2999.2
12.5°	3319.2	3286.6	3267.7	3240.6	3248.7	3221.6	3270.4	3218.9	3208.0	3159.2	3107.7
15°	3481.9	3476.5	3479.2	3435.8	3387.0	3397.8	3397.8	3370.7	3354.5	3294.8	3221.6
17.5°	3815.5	3701.6	3726.0	3671.7	3631.1	3628.3	3603.9	3609.4	3566.0	3441.2	3330.1
20°	4075.8	4027.0	3989.0	3896.8	3834.4	3853.5	3842.6	3815.5	3801.9	3639.2	3481.9
22.5°	4309.0	4325.3	4262.9	4238.5	4151.7	4159.8	4181.5	4157.2	4054.1	3886.0	3652.8
25°	4637.2	4618.1	4534.1	4504.3	4422.9	4452.8	4536.8	4517.8	4452.8	4149.0	3785.6
27.5°	5024.9	4959.8	4976.1	4840.5	4761.9	4845.9	4946.3	5041.2	4856.8	4458.2	3943.0
30°	5298.8	5231.0	5225.6	5220.2	5201.2	5298.8	5415.4	5502.2	5353.1	4767.3	4203.2
32.5°	5434.4	5450.7	5496.7	5480.5	5645.9	5846.6	5968.7	6093.4	5906.2	5271.7	4547.7
35°	5795.1	5692.0	5795.1	5805.9	5976.8	6402.5	6557.1	6855.4	6809.3	5984.9	4968.0
37.5°	6006.5	5998.5	6012.0	6115.1	6280.4	6806.5	7026.3	7256.7	7169.9	6413.3	5491.3
40°	6356.4	6378.1	6375.4	6454.0	6635.7	7110.3	7199.8	7386.9	7395.0	7007.2	6261.5
42.5°	6917.7	6831.0	6774.0	6855.4	7110.3	7373.4	7552.3	7514.4	7782.8	7728.6	7251.3
45°	7422.1	7473.7	7389.6	7525.2	7617.4	7758.4	7753.0	7834.3	8176.0	8433.6	7997.0
47.5°	7894.0	7926.5	7967.2	8059.4	8260.1	8281.8	8235.7	8200.4	8672.3	8938.0	8574.6
50°	8176.0	8205.8	8395.6	8561.1	8935.3	8984.1	9011.2	8921.7	9241.7	9271.6	9119.7
52.5°	8100.1	8132.6	8398.4	8943.4	9540.0	9987.5	9906.1	9754.3	9735.3	9851.9	9624.1
55°	7427.5	7397.7	7763.8	8612.6	9729.9	10803.8	10814.6	10654.6	10348.1	10269.5	9548.1
56°	6855.4	6738.7	7205.2	8230.3	9485.8	10733.2	10855.3	10684.4	10397.0	10044.4	9079.0
57.5°	5616.1	5727.3	6191.0	7039.8	8642.4	10226.1	10296.6	10256.0	10039.0	9447.8	7988.9
60°	3096.8	3292.1	3701.6	4740.2	6153.0	7847.9	7904.9	8235.7	8276.3	7235.0	5496.7
62.5°	1315.2	1293.5	1719.2	2484.0	3503.6	4737.5	4843.2	5182.2	5244.6	4170.7	2757.9
65°	534.2	564.1	778.3	1250.1	1852.1	2158.6	2307.7	2418.9	2625.0	1722.0	1016.9
67.5°	352.5	349.8	458.3	713.2	997.9	962.7	962.7	1016.9	941.0	702.4	439.3
70°	252.2	260.3	328.2	493.5	621.0	461.0	442.0	423.1	480.0	463.7	355.2
72.5°	165.4	176.3	219.6	295.6	322.7	252.2	252.2	303.7	395.9	374.2	290.2
75°	108.4	111.2	135.6	170.9	160.0	130.1	143.8	203.3	287.4	276.6	206.1
77.5°	73.2	76.0	92.2	111.2	89.5	73.2	78.6	103.0	141.0	141.0	108.4
80°	27.1	29.8	38.0	35.2	40.6	51.5	56.9	70.5	84.1	84.1	73.2
82.5°	0.0	2.7	8.1	18.9	29.8	40.6	46.1	54.3	62.4	70.5	67.8
85°	0.0	2.7	8.1	13.5	21.7	24.4	27.1	18.9	16.3	16.3	13.5
87.5°	0.0	0.0	2.7	2.7	2.7	2.7	2.7	2.7	5.4	2.7	2.7
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°	2844.6	2844.6	2844.6	2844.6	2844.6	2844.6	2844.6	2844.6	2844.6	2844.6	2844.6
2.5°	2844.6	2842.0	2842.0	2833.8	2850.0	2842.0	2847.4	2844.6	2809.4	2836.5	2817.5
5°	2874.5	2893.5	2863.7	2858.2	2836.5	2844.6	2844.6	2817.5	2842.0	2839.2	2833.8
7.5°	2950.4	2917.8	2885.4	2852.8	2847.4	2839.2	2809.4	2798.5	2817.5	2795.9	2828.4
10°	2982.9	2988.4	2939.5	2896.2	2855.5	2798.5	2757.9	2733.5	2703.6	2736.2	2755.1
12.5°	3132.1	3077.9	2993.8	2926.0	2787.7	2730.8	2690.1	2679.3	2730.8	2741.6	2722.6
15°	3183.6	3175.5	3067.0	2915.2	2771.4	2703.6	2711.8	2690.1	2695.5	2668.4	2673.8
17.5°	3289.4	3197.2	3069.8	2879.9	2768.7	2752.5	2703.6	2616.9	2568.1	2546.4	2565.3
20°	3406.0	3316.5	3132.1	2893.5	2793.1	2749.7	2589.8	2484.0	2383.7	2329.4	2332.2
22.5°	3509.0	3397.8	3105.0	2898.9	2814.8	2635.8	2443.3	2234.5	2109.8	2025.7	2028.4
25°	3633.7	3476.5	3115.9	2909.7	2757.9	2454.2	2177.5	1974.2	1825.0	1768.1	1787.0
27.5°	3704.3	3525.3	3175.5	2934.1	2608.7	2196.5	1898.2	1708.4	1621.7	1594.5	1591.8
30°	3915.8	3633.7	3248.7	2885.4	2359.3	1919.9	1643.4	1526.7	1442.7	1418.2	1423.7
32.5°	4230.4	3831.8	3343.6	2757.9	2104.3	1673.2	1477.9	1391.2	1312.5	1266.4	1260.9
35°	4493.4	4170.7	3443.9	2559.9	1808.7	1483.3	1361.3	1252.9	1133.5	1082.0	1068.4
37.5°	4995.1	4553.1	3422.3	2261.6	1526.7	1342.3	1236.6	1103.7	1000.7	930.1	922.0
40°	5662.2	5000.6	3316.5	1898.2	1317.9	1217.6	1103.7	976.2	848.8	789.1	783.7
42.5°	6473.0	5548.3	3123.9	1529.4	1109.1	1092.8	989.8	843.4	729.4	686.1	688.8
45°	7132.0	6017.4	2928.7	1228.4	954.6	970.8	881.3	743.0	664.4	629.1	629.1
47.5°	7717.7	6334.7	2717.2	1014.2	810.8	848.8	770.2	688.8	621.0	593.9	588.4
50°	8281.8	6657.4	2505.7	821.7	691.5	729.4	721.3	656.2	602.0	569.5	572.2
52.5°	8634.3	6708.9	2237.2	672.5	604.7	648.1	675.3	615.6	555.9	536.9	531.5
55°	8203.1	6044.5	1735.5	553.2	512.6	569.5	621.0	553.2	507.1	474.6	471.8
56°	7622.8	5404.6	1450.8	509.8	485.4	547.8	602.0	528.8	477.2	458.3	444.7
57.5°	6454.0	4422.9	1071.1	452.9	450.1	509.8	572.2	504.4	444.7	428.5	428.5
60°	4024.3	2489.4	648.1	379.7	390.5	452.9	515.2	450.1	395.9	395.9	404.0
62.5°	1833.2	1035.9	393.2	322.7	336.3	390.5	458.3	406.8	376.9	406.8	412.2
65°	623.7	447.4	284.7	257.6	265.8	322.7	393.2	412.2	409.5	428.5	439.3
67.5°	349.8	287.4	238.7	214.2	208.8	238.7	322.7	412.2	395.9	387.8	393.2
70°	295.6	244.1	211.5	189.8	181.7	192.5	249.5	311.9	279.3	271.2	265.8
72.5°	238.7	203.3	184.4	170.9	146.4	124.7	113.9	119.3	132.9	141.0	154.6
75°	168.1	154.6	154.6	138.3	105.8	78.6	62.4	51.5	35.2	24.4	27.1
77.5°	94.9	94.9	97.6	84.1	67.8	51.5	38.0	27.1	13.5	5.4	2.7
80°	65.1	70.5	76.0	67.8	56.9	46.1	32.6	18.9	8.1	0.0	0.0
82.5°	65.1	73.2	78.6	67.8	56.9	43.4	32.6	18.9	8.1	2.7	0.0
85°	13.5	16.3	18.9	21.7	32.6	32.6	24.4	16.3	8.1	2.7	0.0
87.5°	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	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)