

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: P651013

Luminaire Tested: **GALN-SA7C-840-U-SL3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P651013
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-19)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA7C-840-U-SL3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24082.9 lumens
Efficiency: N/A
Efficacy: 63.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

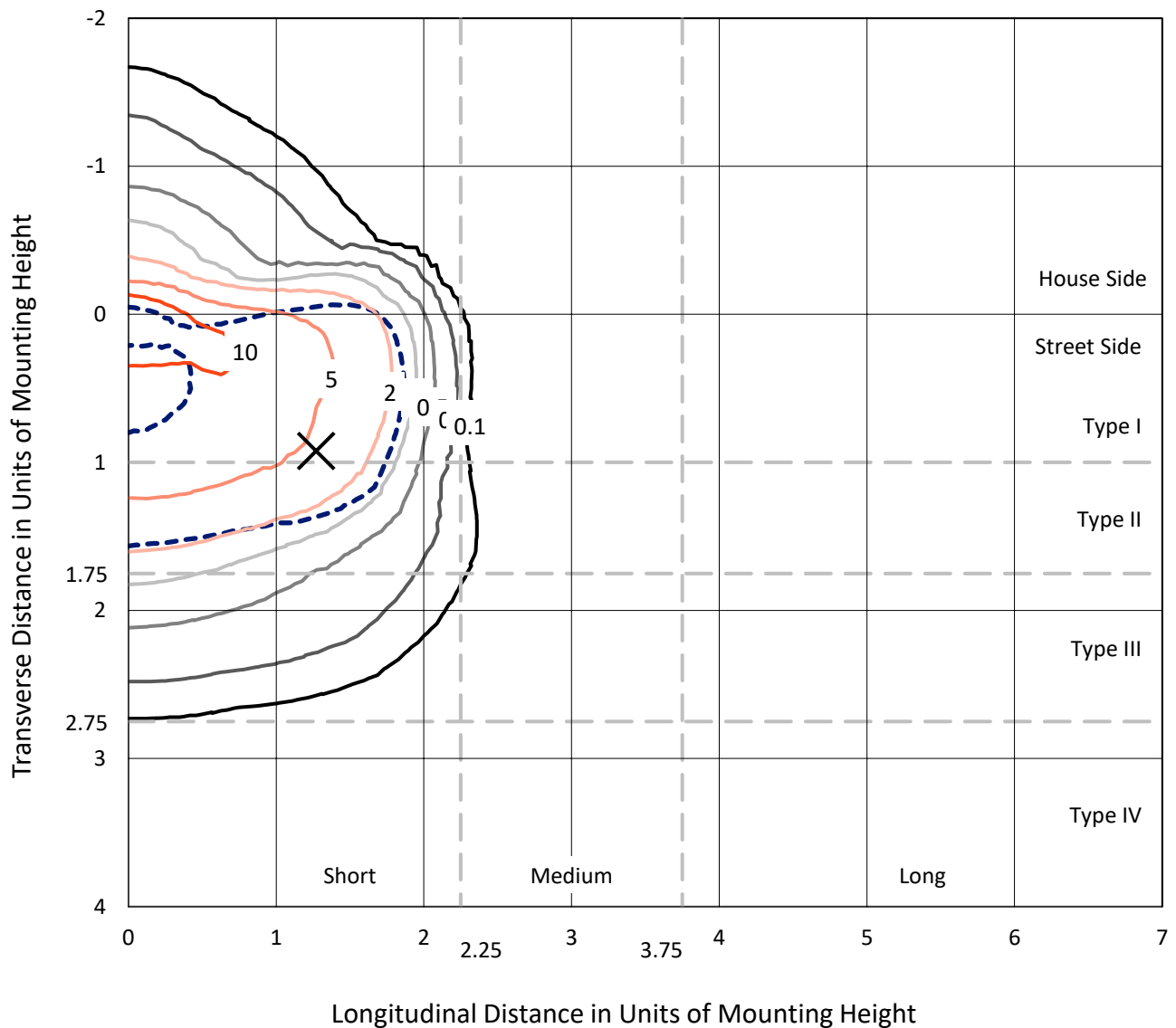
Input Watts (W): 377
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

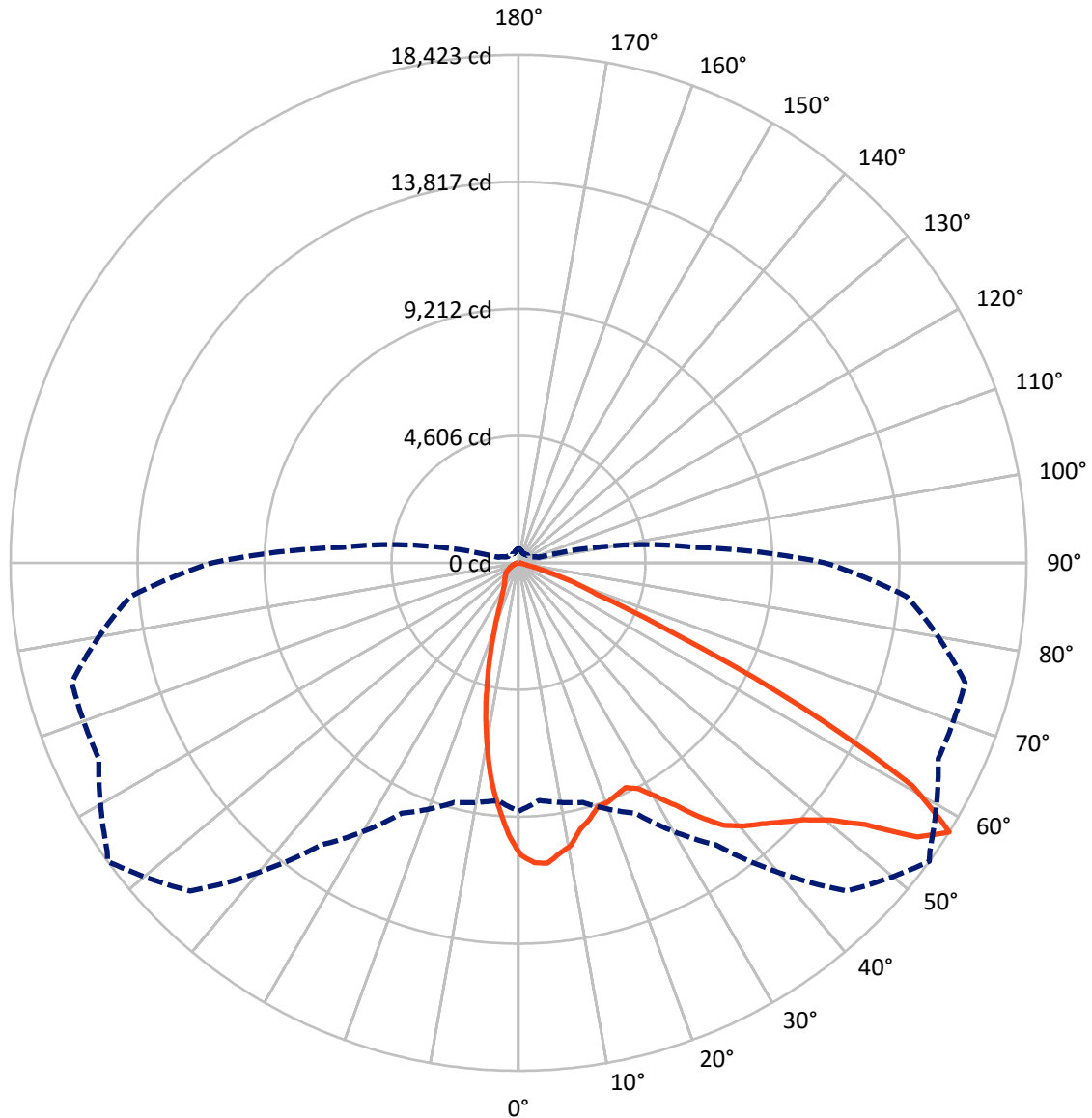
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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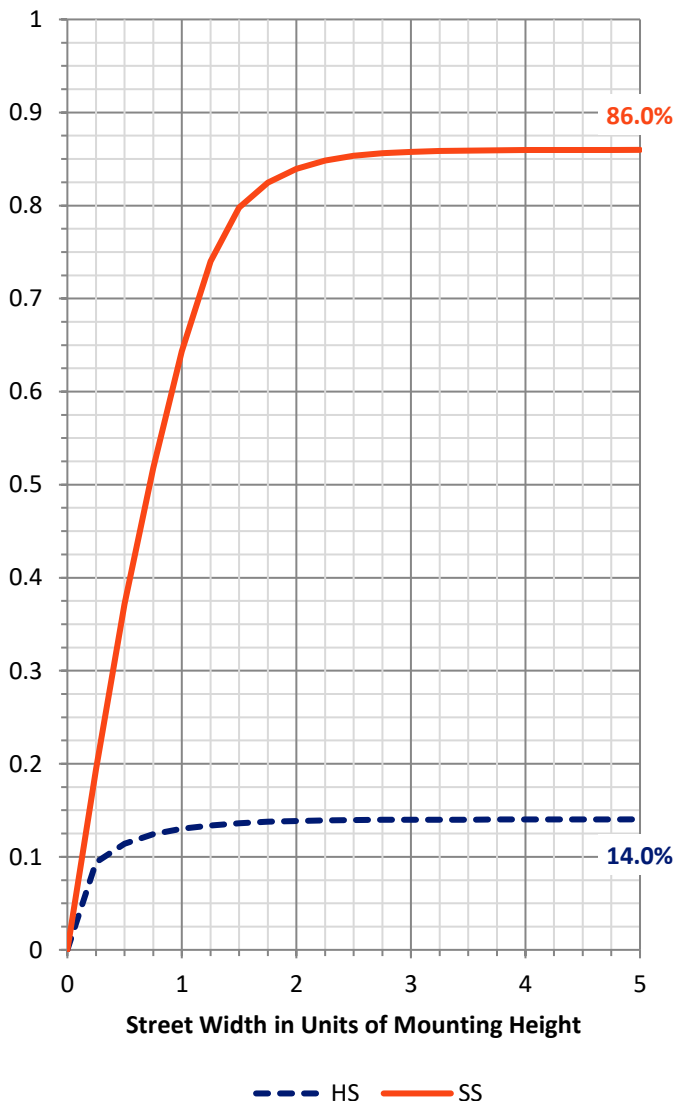
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3403.3	0.0	3403.3
	% Fixture	14.1	0.0	14.1
Street Side	Lumens	20679.6	0.0	20679.6
	% Fixture	85.9	0.0	85.9
Total	Lumens	24082.9	0.0	24082.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	887.8	3.7
10°-20°	1895.4	7.9
20°-30°	2511.7	10.4
30°-40°	3650.3	15.2
40°-50°	5412.8	22.5
50°-60°	6768.5	28.1
60°-70°	2669.9	11.1
70°-80°	265.8	1.1
80°-90°	20.7	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°	24082.9	100.0
0°-180°	24082.9	100.0

Coefficient of Utilization



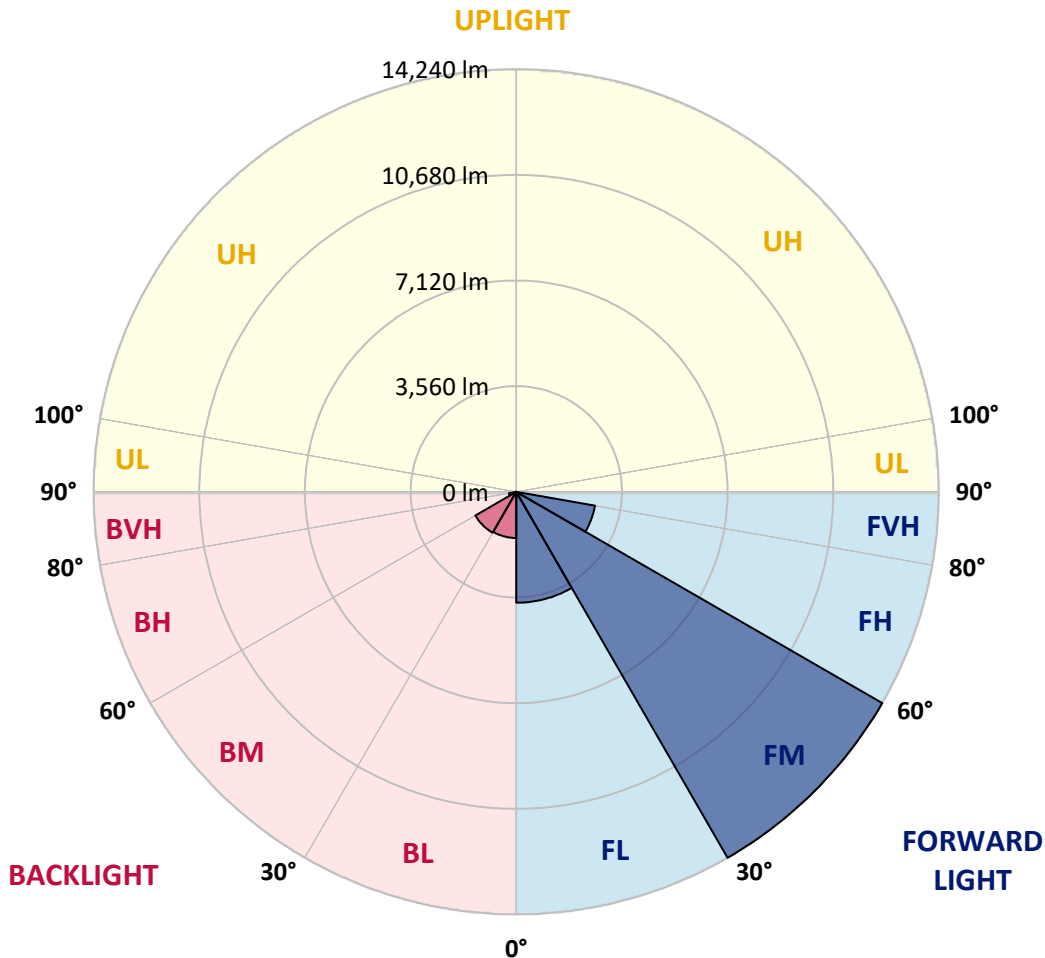
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3738.4	15.5			
FM (30°-60°)	14240.2	59.1			
FH (60°-80°)	2691.7	11.2			G2/5000
FVH (80°-90°)	9.4	0.0			G0/10
BL (0°-30°)	1556.5	6.5	B3/2500		
BM (30°-60°)	1591.5	6.6	B2/2500		
BH (60°-80°)	244.0	1.0	B1/500		G1/500
BVH (80°-90°)	11.3	0.0			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	10608.8	10608.8	10608.8	10608.8	10608.8	10608.8	10608.8	10608.8	10608.8	10608.8	10608.8
2.5°	11226.8	11110.4	11119.4	11079.1	11025.3	11065.6	10890.9	10931.2	10926.8	10689.4	10532.7
5°	10944.7	11070.1	10940.2	11047.7	10944.7	11056.6	10949.1	10868.6	10738.7	10564.1	10273.0
7.5°	10465.5	10344.6	10380.5	10514.8	10537.1	10787.9	10653.6	10756.6	10702.9	10358.1	9959.5
10°	9502.7	9475.9	9655.0	9834.1	10053.6	10322.3	10425.2	10367.0	10326.7	10196.9	9663.9
12.5°	8763.8	8839.9	8835.5	9131.0	9502.7	9655.0	9923.6	9914.7	10138.6	9896.8	9386.3
15°	8060.7	8101.0	8289.1	8472.7	8884.7	9319.1	9650.5	9695.3	9964.0	9793.8	9171.4
17.5°	7630.8	7572.6	7720.4	7939.8	8360.8	8929.5	9296.8	9404.2	9771.4	9735.6	8925.0
20°	7205.4	7205.4	7326.3	7586.1	7971.2	8611.6	9265.4	9234.0	9771.4	9668.4	8660.8
22.5°	7062.1	7133.8	7165.1	7362.1	7818.9	8369.7	9131.0	9189.3	9847.5	9637.1	8544.4
25°	7259.2	7165.1	7174.1	7330.8	7760.7	8253.3	9032.5	9162.4	9986.4	9793.8	8450.4
27.5°	7290.5	7384.6	7411.4	7518.9	7805.5	8289.1	9278.8	9543.0	10331.2	10161.0	8477.2
30°	7563.7	7657.7	7653.2	7836.9	8033.9	8580.2	9829.6	9883.3	11043.3	10622.3	8642.9
32.5°	7895.1	7993.5	8024.9	8239.9	8396.6	9113.1	10501.3	10640.2	11728.4	11347.7	9077.2
35°	8307.1	8271.2	8414.5	8629.5	8965.3	9892.3	11320.9	11553.7	12467.3	12288.2	9525.1
37.5°	8822.0	8777.3	8916.1	9265.4	9722.1	10814.8	12077.7	12229.9	13004.6	13161.4	10353.6
40°	9184.7	9202.6	9623.6	10093.9	10577.5	11692.6	12556.8	12704.7	13380.8	13976.4	10980.5
42.5°	9789.3	9901.3	10407.3	10980.5	11486.5	12350.8	12946.4	13089.7	13555.5	14630.2	11826.9
45°	10667.1	10617.8	11177.6	11818.0	12377.8	13036.0	13407.7	13358.4	13658.5	15279.6	12359.8
47.5°	11795.5	11804.5	12176.2	12722.6	13304.7	13631.6	13922.7	13748.1	13873.5	15964.8	13071.8
50°	12565.8	12633.0	12933.0	13492.8	13783.9	14285.4	14657.1	14549.6	14509.4	16376.7	13519.7
52.5°	12762.8	12964.4	13125.6	13824.2	14504.9	15297.5	15772.2	16000.5	15284.1	16515.6	14088.3
55°	11276.0	11455.2	12023.9	12982.3	14778.1	16900.7	17554.5	17559.0	16296.1	17133.5	14487.0
57.5°	9014.6	8651.9	9001.1	10017.7	12494.1	16833.5	18423.3	18212.8	16802.2	16770.8	14142.1
60°	6233.7	6144.1	6166.5	6569.5	8647.4	13389.8	16417.1	16690.2	15472.1	14536.2	11195.5
62.5°	4939.4	4863.3	4764.8	4720.0	5369.4	8342.9	11580.6	11965.7	10819.3	9426.6	6636.7
65°	3869.2	3824.4	3837.8	4017.0	4012.5	4733.5	6332.1	6175.5	4943.9	3654.2	2086.9
67.5°	2610.8	2678.0	2731.7	3273.6	3551.2	3296.0	3058.6	2969.1	1607.7	676.2	461.3
70°	1468.8	1477.8	1536.0	2046.6	2695.9	2557.1	2109.2	2109.2	801.6	246.3	264.2
72.5°	801.6	774.7	721.0	882.2	1200.2	1218.1	940.4	819.5	237.3	161.2	147.8
75°	389.6	385.1	331.4	273.2	259.7	215.0	165.7	152.2	107.5	103.0	89.6
77.5°	80.6	76.1	40.3	40.3	44.7	49.3	62.7	62.7	76.1	76.1	62.7
80°	0.0	0.0	4.5	17.9	31.4	44.7	53.7	53.7	62.7	62.7	49.3
82.5°	0.0	0.0	4.5	13.5	26.8	40.3	49.3	53.7	62.7	67.2	53.7
85°	0.0	0.0	0.0	8.9	22.4	31.4	26.8	26.8	22.4	17.9	8.9
87.5°	0.0	0.0	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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	10608.8	10608.8	10608.8	10608.8	10608.8	10608.8	10608.8	10608.8	10608.8	10608.8	10608.8
2.5°	10452.1	10443.1	10237.2	10120.7	9910.3	9726.7	9578.8	9471.3	9471.3	9404.2	9341.5
5°	10156.5	10080.4	9641.6	9359.4	8960.9	8665.3	8463.7	8307.1	8060.7	8127.9	7863.7
7.5°	9789.3	9596.7	9014.6	8584.7	8033.9	7612.9	7183.0	6802.3	6435.2	6269.5	6359.1
10°	9395.2	9059.3	8275.7	7595.0	6909.8	6139.6	5638.1	5029.0	4652.8	4630.5	4531.9
12.5°	8978.8	8598.1	7644.3	6703.9	5803.7	4876.7	4111.0	3542.2	3287.0	3004.9	3058.6
15°	8665.3	8101.0	6941.2	5808.2	4612.5	3676.6	2906.3	2467.5	2225.6	2158.5	2136.1
17.5°	8325.0	7720.4	6224.7	4854.3	3618.4	2646.6	2091.3	1880.8	1786.8	1786.8	1773.3
20°	7971.2	7290.5	5512.7	3967.7	2713.8	1974.9	1674.9	1607.7	1603.2	1598.7	1598.7
22.5°	7738.3	6797.9	4867.8	3152.7	2046.6	1580.8	1455.4	1428.5	1446.4	1500.2	1500.2
25°	7492.0	6323.2	4155.8	2431.7	1585.3	1356.9	1285.2	1303.1	1348.0	1397.2	1379.3
27.5°	7241.3	6014.2	3484.0	1907.7	1298.7	1186.7	1159.8	1200.2	1249.4	1294.2	1280.8
30°	7183.0	5682.8	2848.1	1446.4	1115.1	1034.4	1052.3	1088.2	1137.5	1155.4	1173.3
32.5°	7272.5	5423.1	2333.1	1186.7	971.8	949.4	949.4	967.3	998.6	1039.0	1025.5
35°	7527.9	5275.3	1845.0	1030.0	891.1	868.8	864.3	882.2	900.1	913.6	900.1
37.5°	7917.4	5158.9	1509.2	913.6	837.4	801.6	792.6	788.2	806.1	810.6	819.5
40°	8414.5	5221.6	1280.8	841.9	783.6	743.4	716.5	716.5	716.5	729.9	734.4
42.5°	8951.9	5306.6	1106.1	801.6	734.4	685.2	658.3	649.3	658.3	676.2	671.7
45°	9516.2	5472.4	994.1	738.9	689.6	627.0	591.1	582.1	604.6	640.4	635.9
47.5°	10044.6	5709.7	909.0	698.6	644.9	586.7	541.9	532.9	573.2	622.5	627.0
50°	10573.0	6121.7	877.8	667.2	613.5	546.3	506.0	497.1	541.9	604.6	618.0
52.5°	11182.0	6565.0	855.3	627.0	577.7	515.0	470.2	461.3	510.5	591.1	595.6
55°	11580.6	6941.2	837.4	555.3	510.5	465.7	429.9	425.5	479.2	550.9	568.8
57.5°	11114.9	6417.3	774.7	483.7	434.4	412.0	380.6	380.6	425.5	492.6	506.0
60°	8427.9	4222.9	550.9	389.6	367.2	353.8	340.4	340.4	376.2	425.5	429.9
62.5°	4935.0	2274.9	353.8	313.4	313.4	300.1	277.6	277.6	313.4	340.4	344.8
65°	1464.3	729.9	286.6	268.7	264.2	241.8	219.4	215.0	241.8	255.2	250.8
67.5°	420.9	335.9	237.3	223.9	219.4	183.6	170.1	165.7	170.1	161.2	156.8
70°	250.8	228.4	183.6	188.0	165.7	134.3	120.9	116.4	107.5	94.0	85.1
72.5°	138.8	138.8	134.3	143.3	116.4	89.6	76.1	62.7	49.3	40.3	35.8
75°	85.1	89.6	94.0	98.5	76.1	58.2	49.3	31.4	17.9	8.9	8.9
77.5°	58.2	62.7	67.2	71.7	62.7	53.7	40.3	22.4	4.5	0.0	0.0
80°	44.7	49.3	58.2	62.7	67.2	71.7	53.7	22.4	4.5	0.0	0.0
82.5°	49.3	53.7	67.2	62.7	62.7	62.7	49.3	22.4	4.5	0.0	0.0
85°	8.9	13.5	22.4	22.4	31.4	40.3	31.4	8.9	0.0	0.0	0.0
87.5°	0.0	0.0	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)