

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: P648620

Luminaire Tested: **GALN-SA8B-835-U-T3R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P648620
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-12)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA8B-835-U-T3R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31406.1 lumens
Efficiency: N/A
Efficacy: 96.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G3

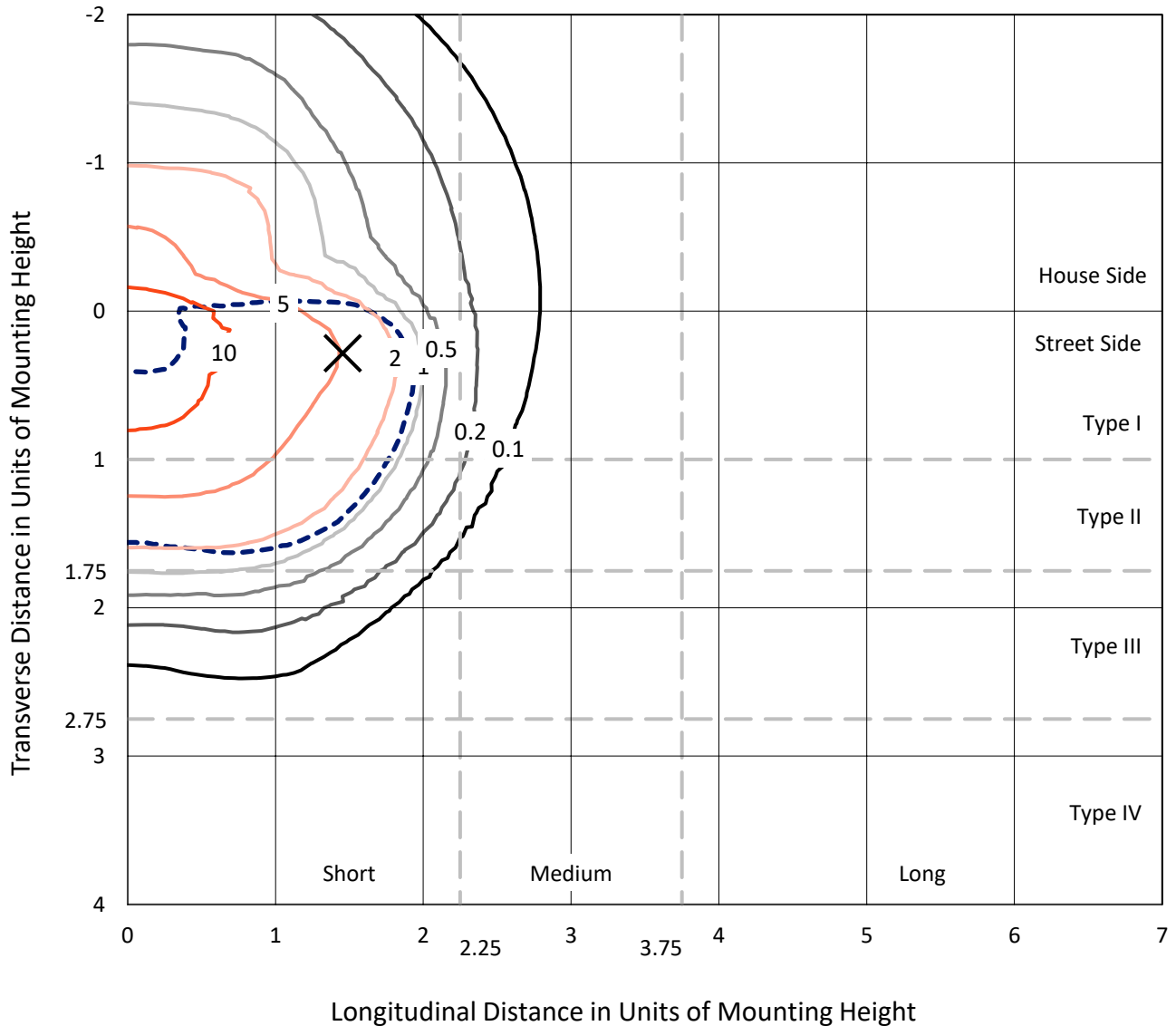
Input Watts (W): 325
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

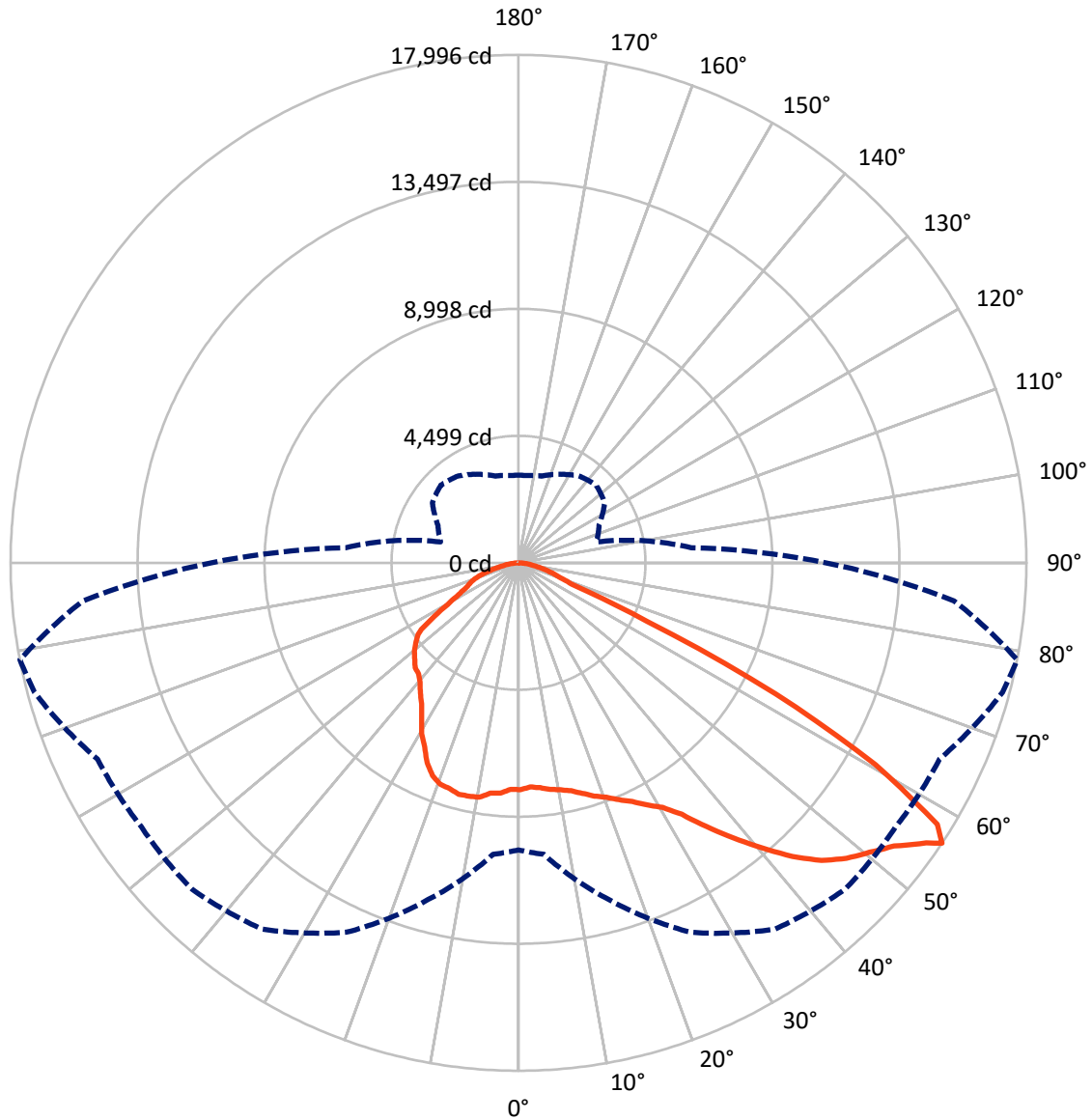
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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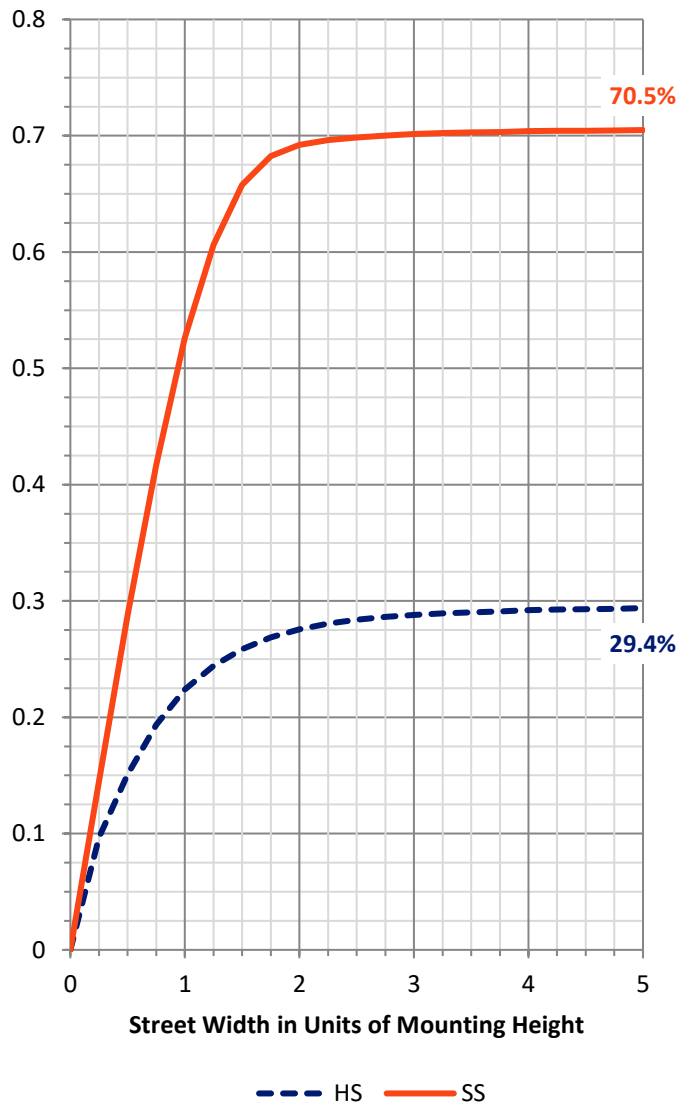
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9274.9	0.0	9274.9
	% Fixture	29.5	0.0	29.5
Street Side	Lumens	22131.2	0.0	22131.2
	% Fixture	70.5	0.0	70.5
Total	Lumens	31406.1	0.0	31406.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	730.6	2.3
10°-20°	1999.4	6.4
20°-30°	3420.6	10.9
30°-40°	5242.5	16.7
40°-50°	7085.2	22.6
50°-60°	8137.6	25.9
60°-70°	3709.4	11.8
70°-80°	914.5	2.9
80°-90°	166.2	0.5
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°	31406.1	100.0
0°-180°	31406.1	100.0

Coefficient of Utilization

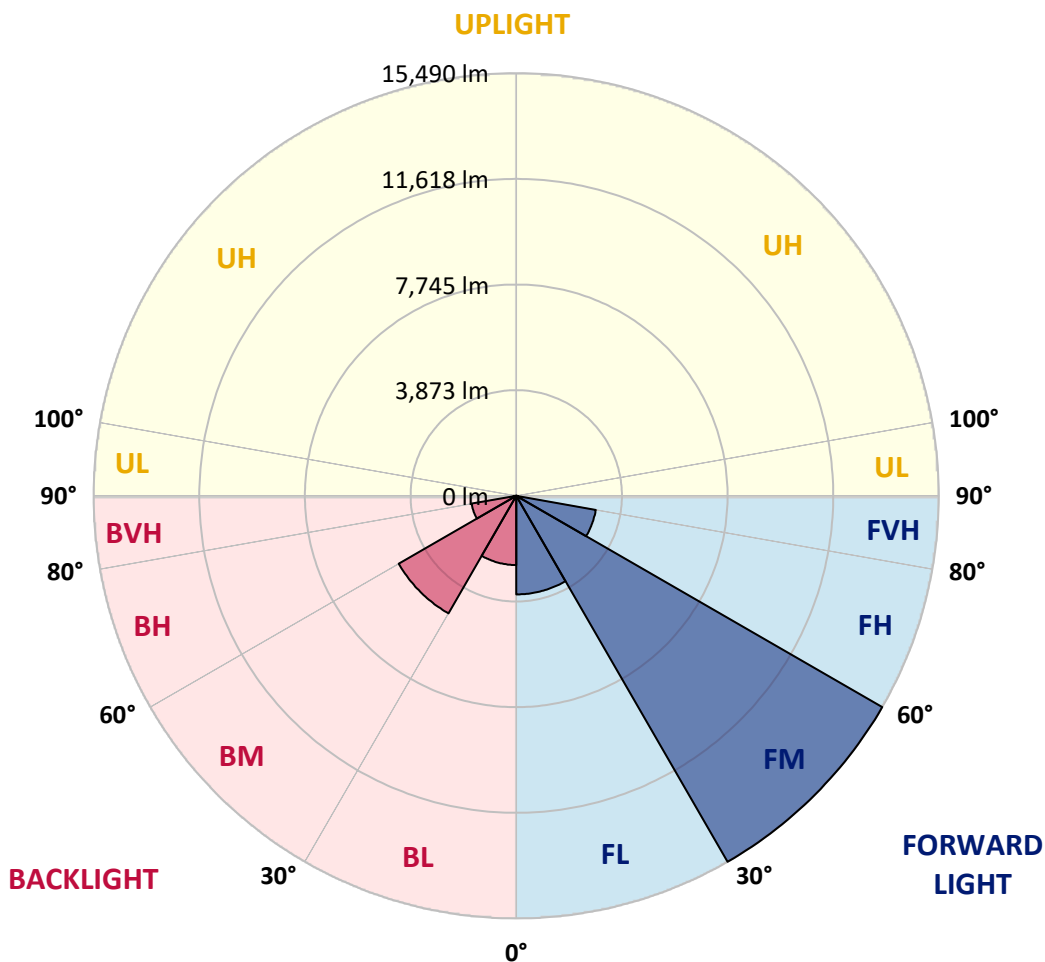


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3613.5	11.5			
FM (30°-60°)	15490.4	49.3			
FH (60°-80°)	2960.9	9.4			G2/5000
FVH (80°-90°)	66.4	0.2			G1/100
BL (0°-30°)	2537.1	8.1	B4/5000		
BM (30°-60°)	4974.9	15.8	B3/5000		
BH (60°-80°)	1663.0	5.3	B3/2500		G3/2500
BVH (80°-90°)	99.9	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G3
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	8035.6	8035.6	8035.6	8035.6	8035.6	8035.6	8035.6	8035.6	8035.6	8035.6	8035.6
2.5°	7644.4	7624.8	7671.8	7707.0	7750.0	7804.8	7832.1	7847.8	7984.7	7949.5	8055.1
5°	7480.1	7429.2	7464.4	7491.8	7566.1	7632.6	7707.0	7824.4	7949.5	8004.3	8133.4
7.5°	7335.3	7307.9	7300.1	7319.6	7421.4	7507.4	7636.5	7808.7	8012.1	8102.1	8176.4
10°	7096.6	7057.6	7116.2	7245.3	7272.7	7452.7	7601.4	7847.8	8023.9	8180.3	8399.4
12.5°	6991.0	6951.9	6963.7	7038.0	7229.7	7401.8	7577.9	7855.6	8227.3	8289.9	8583.3
15°	7159.3	7120.1	7131.9	7112.3	7296.2	7386.2	7663.9	8012.1	8368.2	8473.8	8786.7
17.5°	7542.6	7546.6	7495.7	7452.7	7409.6	7601.4	7793.0	8106.0	8422.9	8689.0	8923.6
20°	8274.2	8145.2	8043.4	7800.9	7734.3	7816.5	8059.0	8360.3	8645.9	8865.0	9131.0
22.5°	8837.6	8849.3	8704.5	8305.5	8160.7	8196.0	8403.3	8649.8	8962.8	9119.3	9424.4
25°	9655.3	9573.0	9416.6	9099.7	8775.0	8802.4	8954.9	9177.9	9264.0	9373.5	9706.1
27.5°	10402.5	10425.9	10116.8	9819.5	9416.6	9338.4	9612.2	9651.3	9506.6	9713.9	9827.4
30°	11161.4	11141.9	10938.4	10590.2	10195.1	10210.7	10332.0	10140.3	9940.8	10054.3	10132.5
32.5°	11947.7	11724.7	11717.0	11403.9	11102.7	10958.0	10809.3	10903.2	10594.1	10617.6	10543.3
35°	12577.6	12608.9	12429.0	12206.0	12057.3	11803.0	11396.1	11564.4	11505.6	11478.3	11157.5
37.5°	13035.3	12914.0	13004.1	12929.7	12788.9	12472.0	12049.4	12209.9	12237.3	12370.2	11998.6
40°	13410.9	13360.0	13598.7	13637.8	13540.0	12855.4	12096.4	12573.7	12984.5	13274.0	12831.9
42.5°	13590.8	13700.4	13950.8	14252.0	14032.9	13301.4	12339.0	12851.5	13766.9	14224.6	13622.2
45°	13833.4	13692.6	14064.2	14615.9	14619.8	13676.9	12573.7	13227.1	14377.2	15042.3	14162.0
47.5°	13586.9	13657.4	14040.8	14741.1	14921.0	14072.1	13207.5	13759.1	15050.1	15640.8	14662.8
50°	13035.3	13176.2	13876.5	14604.1	15147.9	14490.7	13935.1	14334.1	15672.1	16122.0	14744.9
52.5°	12460.3	12538.5	13633.9	14709.8	15249.6	15030.5	14909.3	15128.3	16431.1	16665.8	14846.7
55°	10895.4	11267.1	12831.9	14662.8	15746.4	16004.7	15910.8	16231.6	17291.8	17526.5	15402.2
56°	10171.6	10367.2	12350.7	14443.7	15844.2	16360.7	16313.7	16458.5	17749.5	17995.9	15488.3
57.5°	8833.6	8849.3	10531.5	13473.5	15476.5	16466.3	16419.4	16532.8	17659.5	17491.3	14733.2
60°	5527.9	5770.5	7167.1	10363.3	13160.5	15277.0	15543.0	14631.5	14889.7	14533.7	11462.7
62.5°	2863.7	2828.5	3755.7	6060.0	8735.9	10938.4	11184.8	11141.9	10742.8	10222.5	7487.9
65°	1428.0	1435.8	1963.9	3000.6	4475.5	5727.4	6416.0	6490.3	5430.1	4995.9	3552.2
67.5°	1036.7	1075.8	1412.3	1834.8	2108.6	2359.0	2891.1	2836.3	2147.8	2042.1	1893.5
70°	805.9	841.1	1146.2	1400.6	1271.4	1271.4	1384.9	1431.9	1529.7	1572.7	1623.6
72.5°	586.9	614.2	876.3	966.3	833.3	895.9	1036.7	1146.2	1247.9	1263.6	1322.3
75°	402.9	426.4	575.1	532.0	500.7	618.1	759.0	860.7	935.0	974.1	1009.4
77.5°	262.1	270.0	328.6	277.7	320.8	399.0	492.9	579.0	653.3	684.7	692.5
80°	117.4	129.1	140.9	176.0	223.0	285.6	352.1	422.5	469.5	481.2	504.6
82.5°	66.5	66.5	86.1	125.2	164.3	207.3	254.3	305.1	359.9	371.7	367.8
85°	35.2	35.2	50.9	74.3	101.7	121.3	117.4	121.3	129.1	148.7	144.8
87.5°	11.7	11.7	15.7	15.7	19.6	23.5	19.6	27.4	35.2	35.2	35.2
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°	8035.6	8035.6	8035.6	8035.6	8035.6	8035.6	8035.6	8035.6	8035.6	8035.6	8035.6
2.5°	8023.9	8059.0	8012.1	8113.8	8113.8	8094.3	7996.5	8027.8	8051.2	8051.2	8070.8
5°	8176.4	8164.7	8196.0	8074.7	8000.4	7973.0	7812.6	7734.3	7667.8	7663.9	7605.3
7.5°	8262.5	8231.2	8219.5	8129.5	7800.9	7601.4	7257.1	7057.6	7014.5	6861.9	6920.6
10°	8399.4	8458.1	8399.4	7910.4	7452.7	6994.9	6658.5	6349.4	6228.1	6130.3	6071.7
12.5°	8681.1	8653.7	8313.3	7652.2	7010.6	6466.8	5966.1	5641.4	5520.1	5434.0	5426.2
15°	8919.7	8782.8	8262.5	7245.3	6322.0	5743.1	5332.3	5101.5	5046.7	5054.5	5089.7
17.5°	9001.9	8908.0	7996.5	6822.8	5809.5	5128.9	4937.1	4902.0	4952.8	5011.5	5027.1
20°	9131.0	8982.3	7886.9	6247.7	5175.8	4745.4	4733.7	4858.9	4952.8	5038.8	5050.6
22.5°	9400.9	9025.3	7530.9	5703.9	4741.5	4632.0	4745.4	4851.1	4995.9	5066.2	5003.7
25°	9479.2	8931.4	7030.2	5050.6	4467.7	4561.6	4682.9	4827.6	4929.3	4968.4	4995.9
27.5°	9545.7	8786.7	6353.3	4616.3	4381.6	4557.7	4682.9	4804.2	4858.9	4894.1	4925.4
30°	9733.5	8743.7	5766.6	4326.9	4326.9	4479.5	4639.8	4671.1	4745.4	4788.5	4843.2
32.5°	9827.4	8446.4	5164.0	4143.0	4272.0	4518.5	4530.3	4589.0	4592.8	4628.1	4569.4
35°	10073.8	8235.1	4604.6	4010.0	4295.5	4479.5	4538.1	4502.9	4311.2	4217.3	4236.9
37.5°	10253.8	8129.5	4201.7	3994.3	4299.5	4522.5	4553.8	4287.7	4088.2	3931.8	3970.8
40°	10738.9	7867.3	3896.5	3966.9	4334.7	4569.4	4483.3	4193.8	3834.0	3673.5	3646.1
42.5°	11110.5	7679.6	3704.8	3935.7	4362.1	4635.9	4448.1	4006.1	3638.3	3489.7	3528.7
45°	11540.9	7636.5	3603.1	3943.4	4409.0	4671.1	4405.1	3861.3	3470.1	3411.4	3399.7
47.5°	11693.5	7327.5	3493.6	3876.9	4397.2	4659.4	4260.4	3751.7	3407.5	3415.3	3446.6
50°	11439.2	7010.6	3411.4	3740.0	4319.0	4553.8	4033.5	3607.0	3372.3	3470.1	3524.8
52.5°	11114.5	6685.9	3243.2	3556.2	4158.6	4389.4	3927.8	3599.2	3337.1	3305.7	3317.5
55°	11212.2	6419.9	3008.4	3305.7	3900.4	4084.3	3810.5	3524.8	3251.0	3133.6	3172.8
56°	10895.4	6146.0	2855.9	3149.3	3724.4	3888.7	3751.7	3458.4	3180.6	3102.3	3102.3
57.5°	9999.5	5226.7	2656.3	2898.9	3352.7	3548.3	3638.3	3419.2	3102.3	2965.5	2969.4
60°	7374.5	3716.6	2382.5	2554.6	2777.6	2934.1	3352.7	3309.7	2906.7	2812.8	2777.6
62.5°	4545.9	2715.1	2186.9	2253.4	2366.9	2496.0	2926.3	2996.7	2699.4	2597.7	2574.2
65°	2546.8	2077.4	2038.2	2065.6	2120.4	2186.9	2429.5	2585.9	2382.5	2226.0	2218.2
67.5°	1862.2	1858.3	1889.6	1913.0	1936.5	1936.5	1995.2	2057.8	2030.4	1905.2	1893.5
70°	1654.9	1666.6	1690.0	1693.9	1701.8	1674.4	1627.5	1607.9	1639.2	1561.0	1545.3
72.5°	1365.3	1404.5	1431.9	1435.8	1392.7	1357.5	1294.9	1228.4	1205.0	1189.3	1185.4
75°	1048.4	1075.8	1087.6	1083.7	1068.0	1017.2	942.8	876.3	833.3	786.4	809.9
77.5°	708.1	747.2	766.8	766.8	743.3	665.1	629.8	579.0	536.0	485.1	492.9
80°	496.8	524.2	555.5	551.6	512.5	473.4	422.5	375.6	340.4	301.2	297.3
82.5°	371.7	387.3	402.9	395.1	367.8	328.6	293.4	250.4	211.3	183.8	183.8
85°	133.0	144.8	176.0	183.8	199.5	199.5	168.2	140.9	113.5	93.9	93.9
87.5°	39.2	39.2	43.1	43.1	39.2	43.1	35.2	39.2	43.1	27.4	27.4
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)