

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: P648612

Luminaire Tested: **GALN-SA8B-835-U-T2R-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P648612  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-10)  
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-T2R-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 80 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
ROADWAY OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 31615.2 lumens  
Efficiency: N/A  
Efficacy: 97.3 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3

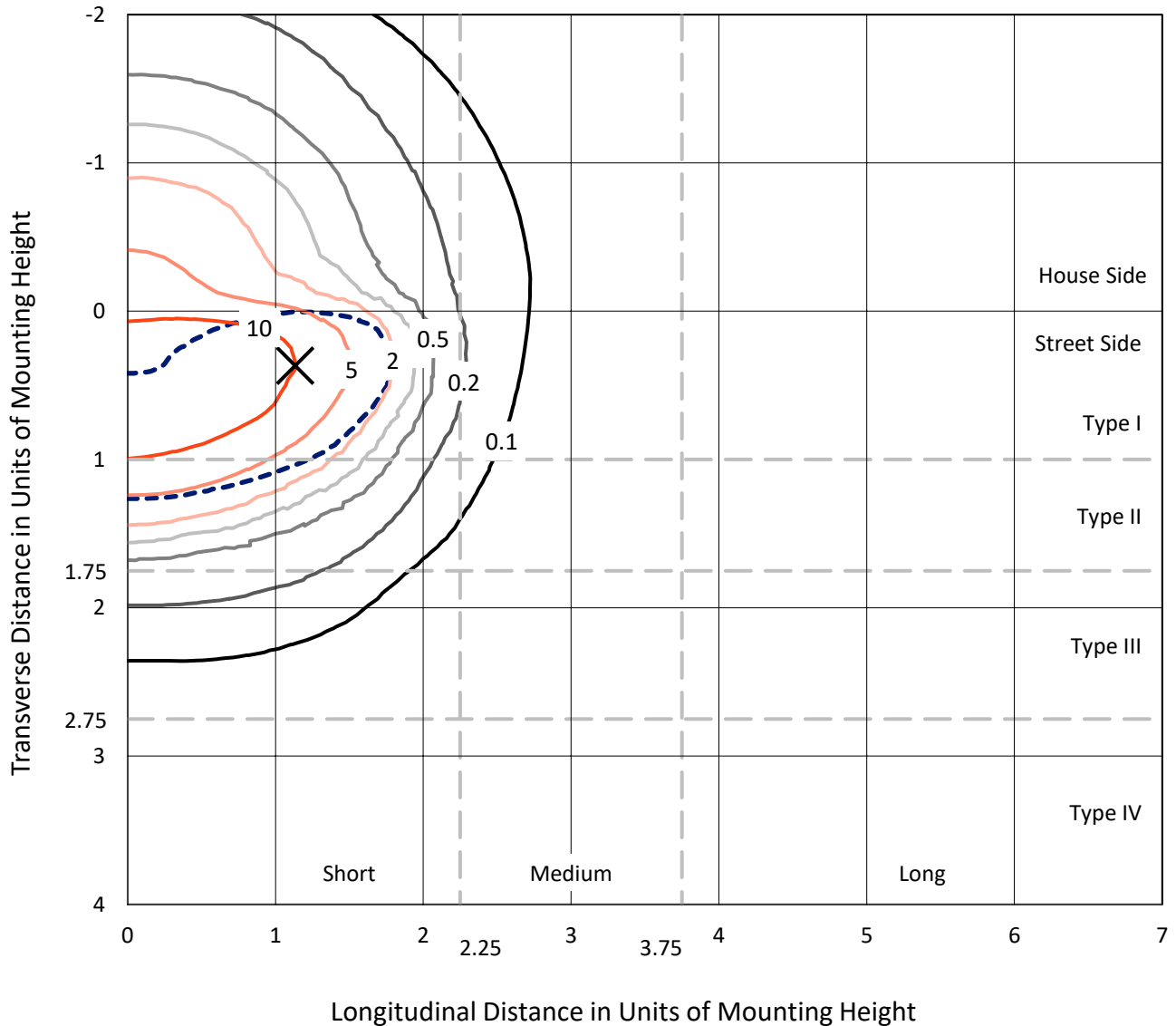
Input Watts (W): 325  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

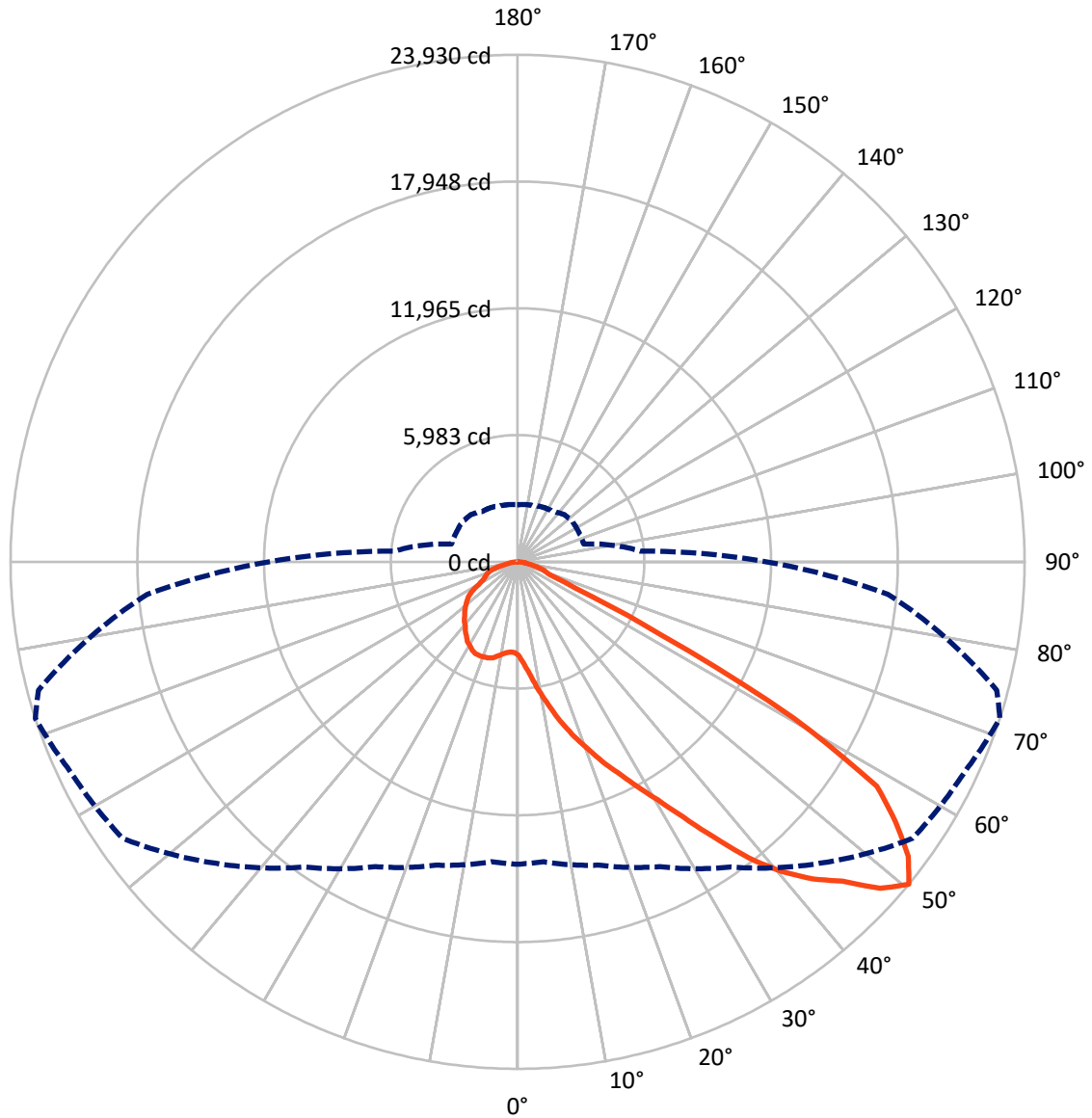
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.7 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 72-Deg Lateral      - - - Horizontal Cone Through 50-Deg Vertical

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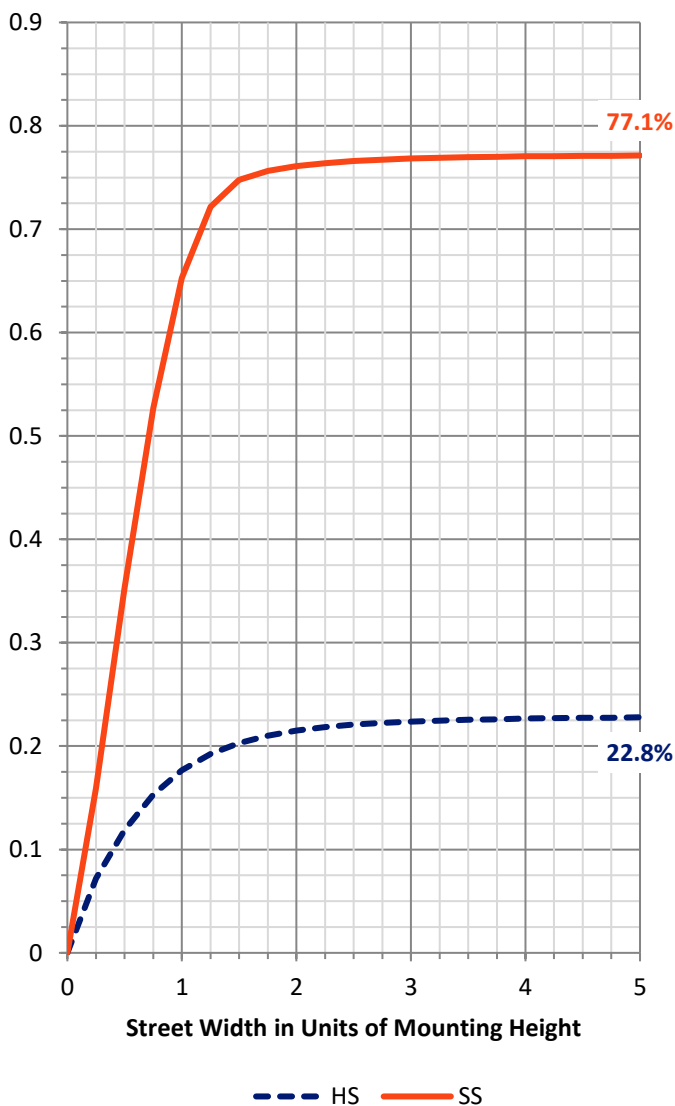
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	7243.2	0.0	7243.2
	% Fixture	22.9	0.0	22.9
<b>Street Side</b>	Lumens	24372.0	0.0	24372.0
	% Fixture	77.1	0.0	77.1
<b>Total</b>	Lumens	31615.2	0.0	31615.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	517.7	1.6
10°-20°	1935.3	6.1
20°-30°	3752.3	11.9
30°-40°	6216.3	19.7
40°-50°	8698.0	27.5
50°-60°	7337.9	23.2
60°-70°	2236.6	7.1
70°-80°	784.7	2.5
80°-90°	136.4	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°	31615.2	100.0
0°-180°	31615.2	100.0

**Coefficient of Utilization**



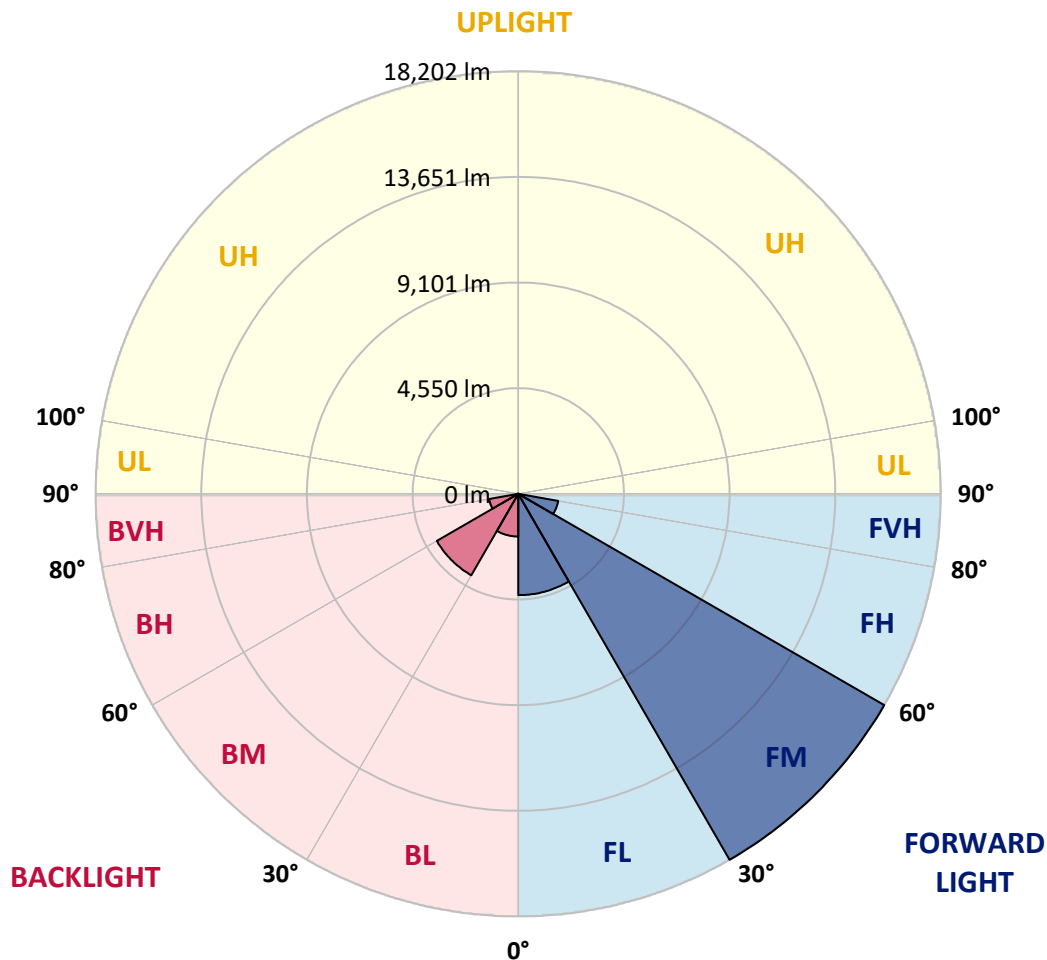
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4364.0	13.8			
FM (30°-60°)	18201.7	57.6			
FH (60°-80°)	1745.1	5.5			G1/1800
FVH (80°-90°)	61.1	0.2			G1/100
BL (0°-30°)	1841.3	5.8	B3/2500		
BM (30°-60°)	4050.5	12.8	B3/5000		
BH (60°-80°)	1276.1	4.0	B3/2500		G3/2500
BVH (80°-90°)	75.3	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G3**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	4401.1	4401.1	4401.1	4401.1	4401.1	4401.1	4401.1	4401.1	4401.1	4401.1	4401.1
2.5°	5660.8	5625.6	5520.0	5484.8	5359.6	5132.6	5054.4	4823.6	4725.8	4635.8	4530.2
5°	7159.1	6994.9	6983.1	6783.6	6494.0	6325.9	5825.1	5488.7	5179.6	5023.1	4733.6
7.5°	8113.7	8117.6	8117.6	7953.3	7722.5	7296.1	6846.2	6239.8	5774.2	5543.4	5050.5
10°	9021.3	8943.0	8900.0	8884.4	8727.9	8313.2	7832.0	7080.9	6443.2	6173.3	5289.2
12.5°	9662.8	9596.4	9694.2	9643.3	9529.9	9259.9	8806.1	7949.4	7151.3	6787.5	5672.5
15°	9968.0	10015.0	10093.2	10234.0	10183.1	10081.4	9580.7	8841.3	7914.2	7503.4	6012.9
17.5°	10437.5	10308.4	10402.2	10578.3	10719.1	10672.2	10386.6	9486.8	8669.2	8164.6	6470.6
20°	10766.1	10691.8	10738.7	10942.1	11047.7	11313.8	11165.1	10331.8	9392.9	8860.9	7010.4
22.5°	11705.0	11595.4	11442.8	11474.2	11513.3	11701.1	11736.3	11259.0	10234.0	9670.7	7523.0
25°	12863.0	12761.3	12581.3	12397.4	12283.9	12248.8	12370.1	11986.6	11039.9	10457.0	8074.5
27.5°	14138.3	13966.1	13852.8	13473.2	13168.1	13121.1	13062.5	12855.1	11994.5	11364.6	8696.5
30°	15378.4	15241.5	15089.0	14482.6	14165.7	14114.8	13825.4	13884.0	13031.2	12330.9	9400.8
32.5°	16317.3	16329.1	15980.9	15523.2	15225.8	14955.9	14850.3	15018.5	14361.3	13797.9	10187.1
35°	17076.3	17111.5	16779.0	16364.3	16043.5	16231.3	16184.3	16262.6	15949.6	15261.1	11102.5
37.5°	17815.7	17639.7	17283.6	17084.1	16915.9	17225.0	17624.0	17690.5	17749.2	16939.3	12166.6
40°	17937.0	17952.6	17745.3	17886.1	17674.8	18140.4	19067.5	18981.5	19220.1	18512.0	13320.7
42.5°	17764.8	17800.0	17882.2	18081.7	18590.3	19149.7	20526.7	20174.7	20464.2	19834.3	14443.5
45°	17483.1	17338.4	17440.1	18199.0	19079.3	20323.3	21860.8	21586.9	21493.0	20964.9	15781.4
47.5°	16137.4	16286.0	16602.9	17537.9	18860.2	20526.7	22807.5	22744.9	23026.5	22654.9	16998.1
50°	14271.3	14212.6	14822.9	15875.2	17580.9	20127.7	22756.6	23323.9	23930.3	23413.9	17541.9
52.5°	10687.9	11000.8	11525.1	12831.6	15265.0	17952.6	21645.6	22592.4	23085.3	22975.7	17103.7
55°	6756.2	6850.1	7167.0	8720.0	10910.8	14408.2	18555.1	20749.7	21630.0	22040.7	16700.7
57.5°	3282.3	3106.2	3493.5	4741.5	6302.4	9690.3	14310.4	18073.8	19986.9	20730.2	15824.4
60°	1713.5	1780.0	1932.6	2378.5	3258.8	5030.9	8919.5	12045.4	14967.7	16110.0	11994.5
62.5°	1420.1	1443.5	1545.3	1768.2	2167.3	2895.0	4553.7	5872.0	7632.5	8661.4	6822.7
65°	1205.0	1216.6	1326.2	1474.9	1729.2	2038.2	2343.4	2452.9	2969.3	3047.5	2425.5
67.5°	1005.4	1017.1	1134.5	1275.4	1439.6	1521.8	1600.1	1592.2	1650.9	1627.5	1623.6
70°	774.6	786.4	907.6	1056.3	1138.4	1091.5	1334.0	1388.8	1412.3	1431.8	1463.1
72.5°	559.5	582.9	676.8	782.5	739.4	848.9	1099.3	1181.5	1212.7	1224.5	1263.6
75°	406.8	414.7	438.2	406.8	469.5	590.7	774.6	876.3	915.4	927.2	985.9
77.5°	179.9	183.8	187.8	234.7	301.2	367.8	461.7	543.8	598.5	614.2	629.8
80°	93.9	97.8	121.3	160.4	215.2	269.9	336.5	383.4	418.6	422.5	438.2
82.5°	58.6	62.6	86.1	113.5	152.6	199.5	246.5	285.6	313.0	316.9	320.8
85°	27.4	35.2	50.9	70.4	101.7	129.1	133.0	113.5	121.3	125.2	117.4
87.5°	7.8	11.7	15.7	11.7	15.7	15.7	19.6	23.5	23.5	23.5	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



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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4401.1	4401.1	4401.1	4401.1	4401.1	4401.1	4401.1	4401.1	4401.1	4401.1	4401.1
2.5°	4471.6	4436.3	4299.4	4248.6	4115.5	4139.0	4068.5	4064.6	4049.0	4045.1	4041.2
5°	4581.1	4471.6	4307.2	4182.0	4107.7	4099.9	4049.0	4049.0	4064.6	4076.4	4049.0
7.5°	4761.0	4635.8	4358.1	4240.7	4174.2	4162.4	4127.3	4099.9	4135.1	4123.4	4092.0
10°	4968.4	4749.3	4455.9	4354.2	4244.6	4217.2	4217.2	4229.0	4170.3	4189.8	4158.6
12.5°	5199.2	4905.7	4581.1	4463.7	4334.6	4318.9	4311.1	4225.1	4256.4	4240.7	4162.4
15°	5492.6	5085.7	4741.5	4541.9	4432.4	4362.0	4260.3	4244.6	4225.1	4185.9	4150.8
17.5°	5809.5	5281.3	4815.8	4565.4	4401.1	4350.3	4272.0	4189.8	4131.2	4139.0	4111.6
20°	6079.4	5461.3	4843.2	4588.8	4377.6	4279.8	4158.6	4107.7	4045.1	4041.2	4037.3
22.5°	6400.2	5703.8	4882.3	4526.3	4307.2	4205.5	4123.4	4033.4	3990.3	3935.6	3962.9
25°	6783.6	5797.7	4890.1	4491.1	4256.4	4076.4	4033.4	3935.6	3919.9	3841.7	3857.3
27.5°	7061.3	5848.5	4827.5	4381.5	4139.0	4002.1	3923.8	3853.4	3826.1	3767.3	3751.7
30°	7432.9	5926.8	4694.5	4244.6	4021.6	3869.0	3822.1	3806.5	3728.3	3665.6	3657.8
32.5°	7855.4	5977.7	4608.4	4103.8	3900.4	3783.0	3806.5	3732.2	3634.4	3579.6	3563.9
35°	8191.9	5997.2	4393.3	3943.4	3818.2	3743.8	3716.5	3700.8	3560.0	3509.2	3470.0
37.5°	8704.4	5954.2	4213.3	3830.0	3728.3	3700.8	3677.4	3571.7	3411.4	3337.0	3282.3
40°	9303.0	5942.5	3982.5	3669.5	3642.1	3673.4	3603.1	3438.7	3215.7	3133.6	3094.5
42.5°	9878.0	6024.6	3837.8	3583.5	3548.2	3560.0	3462.2	3215.7	3106.2	3059.3	2996.7
45°	10840.4	6196.7	3599.1	3450.4	3434.8	3427.0	3309.7	3051.4	2988.9	2930.1	2918.4
47.5°	11708.9	6083.3	3446.5	3313.6	3329.2	3286.2	3035.8	2953.6	2883.2	2824.5	2804.9
50°	11759.7	5813.4	3231.4	3208.0	3211.9	3137.5	2898.8	2844.1	2754.1	2715.0	2687.6
52.5°	11493.7	5371.3	3031.9	3039.7	3051.4	2930.1	2730.6	2691.5	2617.2	2562.4	2546.8
55°	10746.5	4682.8	2836.3	2867.6	2898.8	2668.1	2605.4	2507.6	2449.0	2370.7	2374.6
57.5°	9467.3	3771.2	2562.4	2613.3	2679.8	2425.5	2378.5	2257.3	2171.2	2108.6	2100.8
60°	6345.4	2683.7	2151.7	2171.2	2319.9	2218.2	2214.2	2093.0	1975.6	1920.9	1889.5
62.5°	3743.8	2050.0	1858.2	1838.7	1834.8	1893.5	1991.2	1948.3	1795.7	1690.0	1721.3
65°	1959.9	1772.2	1729.2	1662.6	1623.6	1607.9	1682.2	1701.8	1600.1	1486.6	1478.8
67.5°	1647.0	1647.0	1611.8	1588.3	1533.5	1467.0	1420.1	1357.5	1341.8	1310.6	1271.4
70°	1498.3	1537.4	1525.8	1470.9	1424.0	1349.7	1228.4	1126.7	1028.9	993.7	1017.1
72.5°	1306.7	1345.7	1345.7	1318.3	1255.8	1142.3	1024.9	907.6	825.4	762.9	755.0
75°	1005.4	1024.9	1071.9	1040.6	958.5	888.1	766.8	645.5	567.3	508.6	496.8
77.5°	641.6	672.9	672.9	669.0	610.3	543.8	465.6	379.4	320.8	277.7	266.0
80°	426.4	446.0	461.7	446.0	406.8	356.0	297.3	238.7	195.6	160.4	152.6
82.5°	313.0	336.5	348.2	332.5	293.4	254.3	211.3	168.2	125.2	97.8	90.0
85°	121.3	125.2	140.9	168.2	164.3	160.4	129.1	93.9	70.4	50.9	47.0
87.5°	31.3	27.4	31.3	31.3	27.4	23.5	23.5	23.5	23.5	11.7	15.7
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)