

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: P648617

Luminaire Tested: **GALN-SA8B-835-U-T3-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P648617
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-16)
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-T3-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30674.1 lumens
Efficiency: N/A
Efficacy: 94.4 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

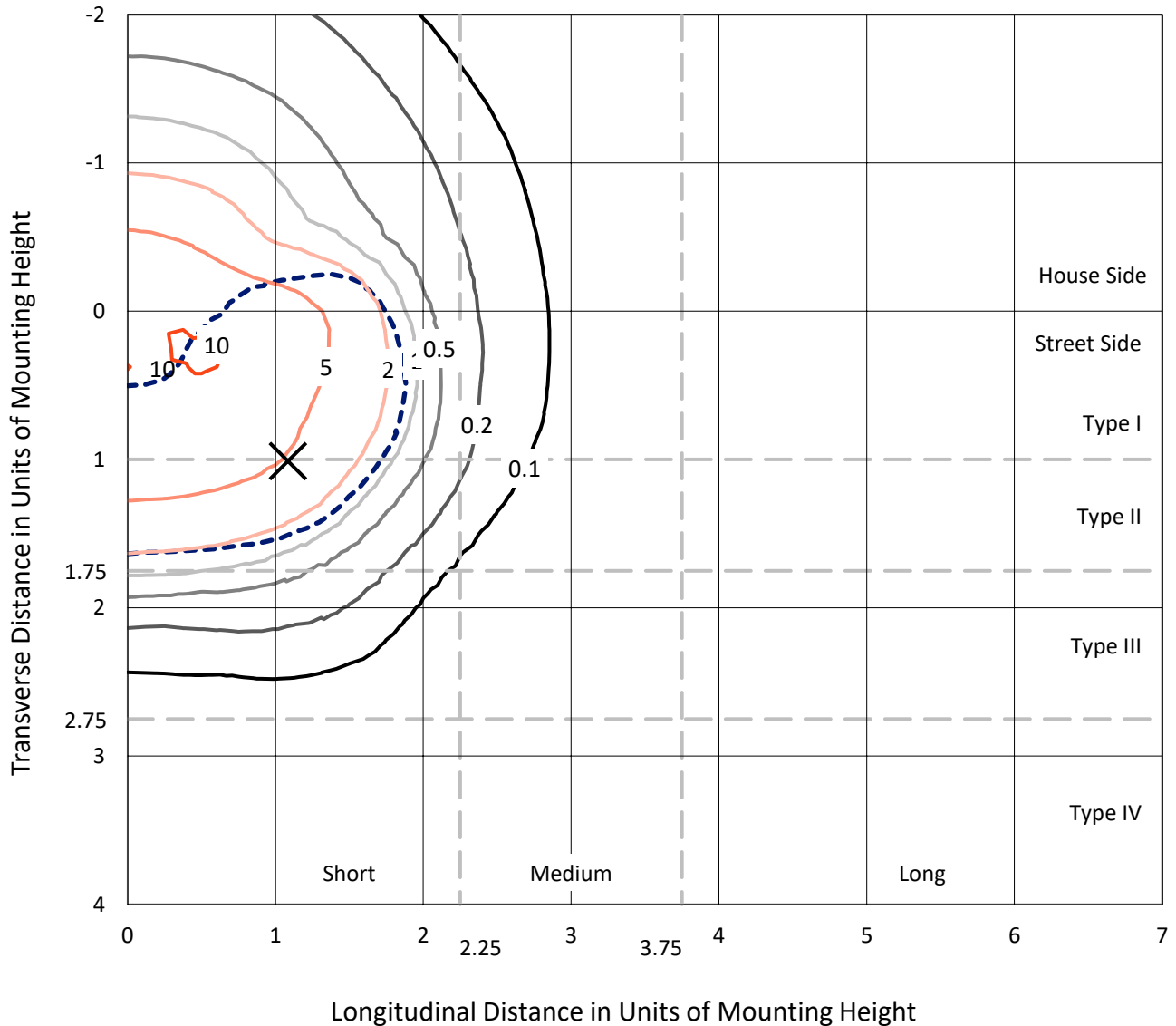
Input Watts (W): 325
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

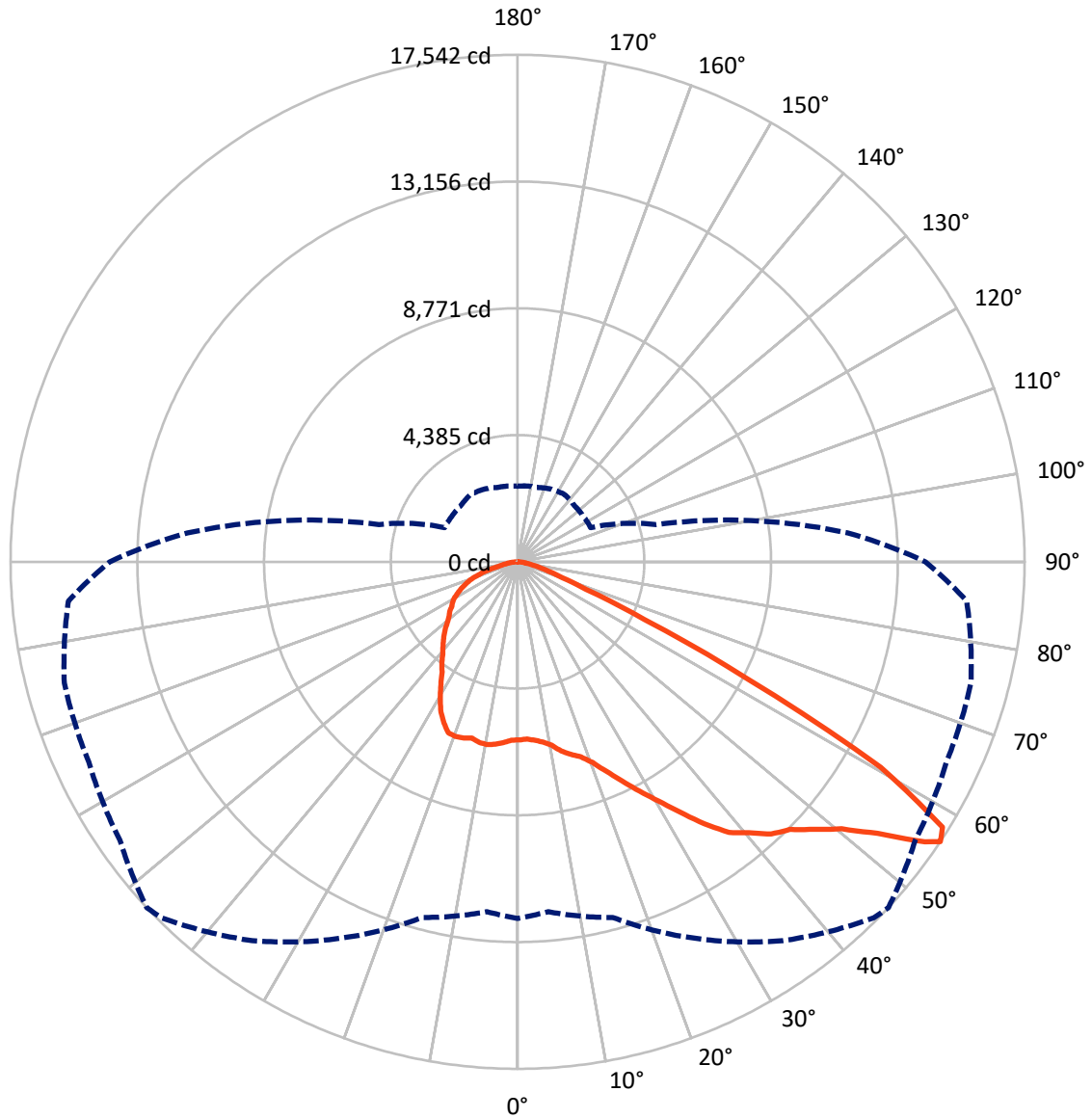
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.3 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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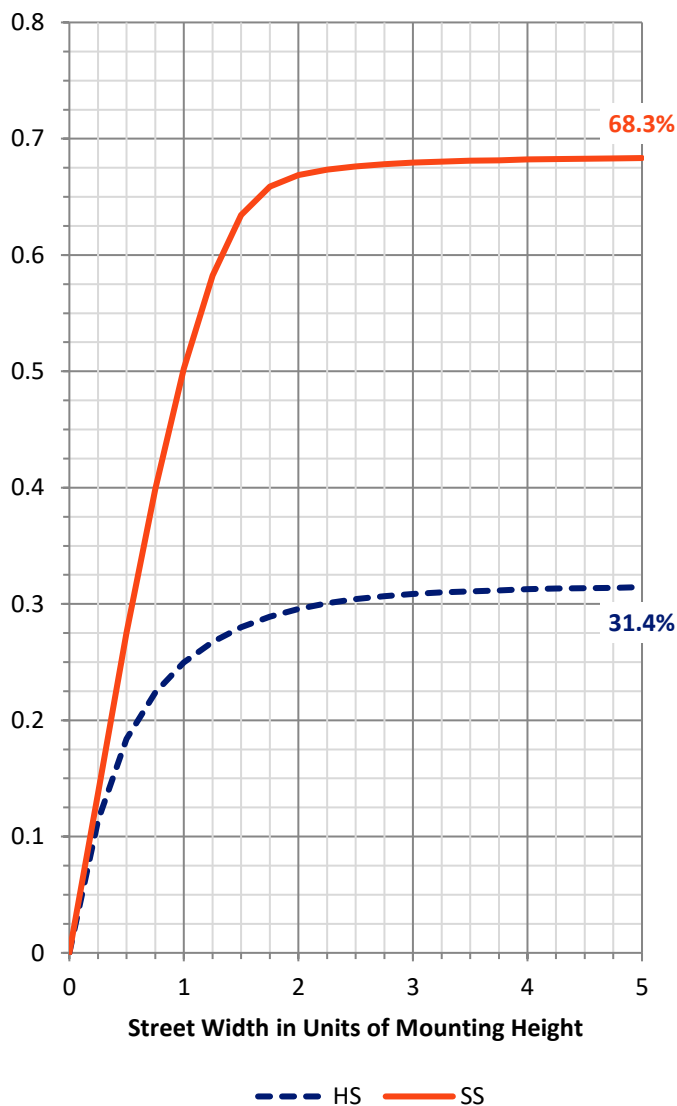
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9720.2	0.0	9720.2
	% Fixture	31.7	0.0	31.7
Street Side	Lumens	20953.8	0.0	20953.8
	% Fixture	68.3	0.0	68.3
Total	Lumens	30674.1	0.0	30674.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	600.4	2.0
10°-20°	1893.8	6.2
20°-30°	3347.8	10.9
30°-40°	5028.3	16.4
40°-50°	6900.8	22.5
50°-60°	8221.4	26.8
60°-70°	3518.3	11.5
70°-80°	995.7	3.2
80°-90°	167.6	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°	30674.1	100.0
0°-180°	30674.1	100.0

Coefficient of Utilization



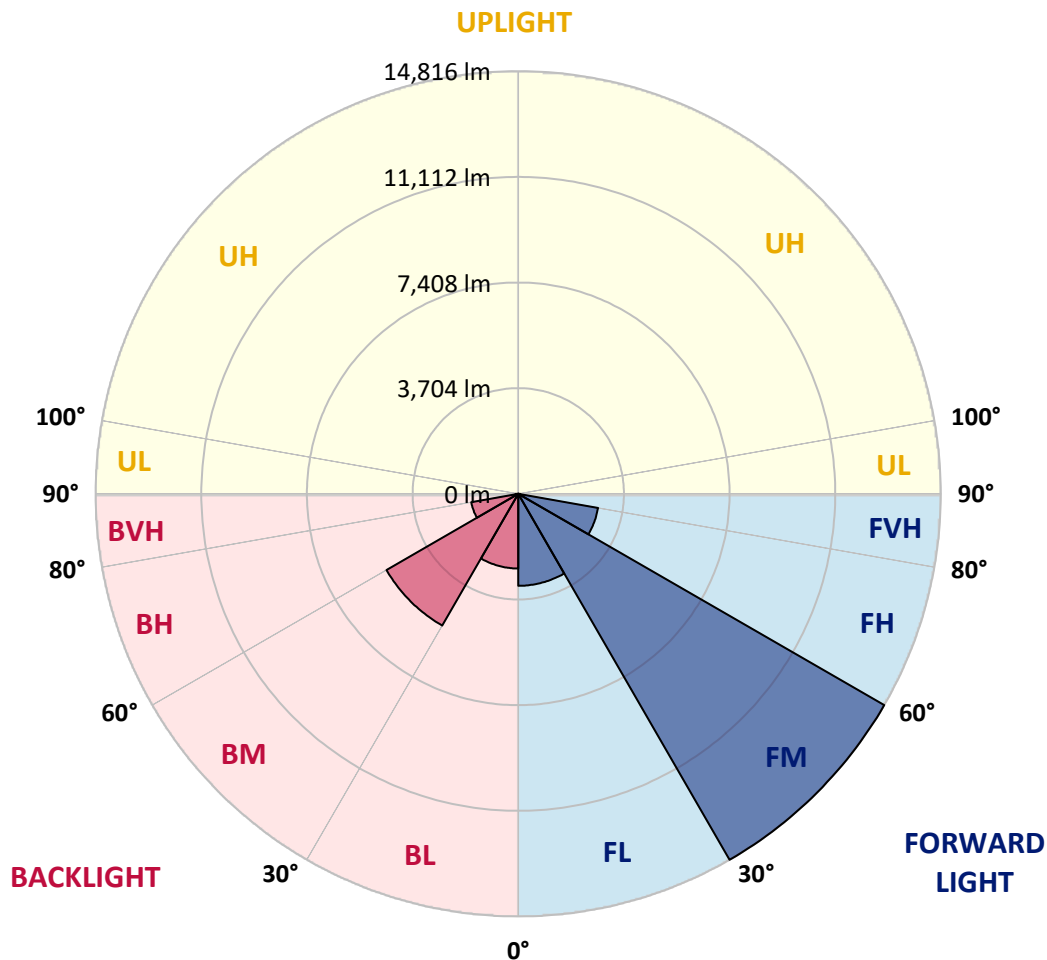
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3224.9	10.5			
FM (30°-60°)	14816.3	48.3			
FH (60°-80°)	2841.5	9.3			G2/5000
FVH (80°-90°)	71.1	0.2			G1/100
BL (0°-30°)	2617.1	8.5	B4/5000		
BM (30°-60°)	5334.3	17.4	B4/8500		
BH (60°-80°)	1672.4	5.5	B3/2500		G3/2500
BVH (80°-90°)	96.4	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°	47°	55°	65°	75°	85°
0°	6161.5	6161.5	6161.5	6161.5	6161.5	6161.5	6161.5	6161.5	6161.5	6161.5	6161.5
2.5°	6138.0	6126.3	6118.4	6181.0	6157.6	6161.5	6138.0	6161.5	6177.2	6141.9	6192.7
5°	6126.3	6161.5	6130.2	6149.8	6200.6	6184.9	6200.6	6247.6	6235.8	6224.1	6208.4
7.5°	6235.8	6239.7	6263.2	6271.0	6286.6	6271.0	6294.5	6337.5	6325.8	6259.3	6267.1
10°	6392.3	6400.1	6404.0	6447.1	6474.5	6478.4	6451.0	6411.8	6407.9	6497.9	6435.3
12.5°	6572.3	6552.7	6599.6	6615.3	6646.6	6681.8	6717.0	6634.8	6685.7	6689.6	6615.3
15°	6834.3	6853.9	6799.2	6799.2	6810.8	6814.8	6912.6	6873.5	6865.7	6822.6	6853.9
17.5°	7225.5	7092.6	7088.7	7033.8	7026.0	7057.3	7092.6	7123.8	7229.4	7143.4	6975.2
20°	7511.2	7542.4	7428.9	7362.5	7374.2	7444.6	7409.5	7550.2	7624.6	7483.8	7319.5
22.5°	8015.8	7910.2	7937.6	7788.9	7800.6	7874.9	7871.0	8015.8	8058.8	7835.9	7597.2
25°	8356.2	8328.8	8352.3	8234.9	8250.5	8309.2	8403.1	8641.7	8571.3	8324.9	7773.2
27.5°	8853.0	8798.2	8778.6	8735.6	8720.0	8876.5	8985.9	9240.3	9189.4	8829.5	8086.2
30°	9361.5	9326.3	9345.9	9169.9	9232.4	9565.0	9596.3	9944.4	9920.9	9287.2	8434.4
32.5°	9713.6	9733.2	9768.4	9670.6	9948.3	10214.4	10320.0	10715.1	10734.7	10073.5	9107.2
35°	10280.9	10214.4	10233.9	10347.3	10476.5	10961.5	11133.7	11395.8	11560.1	10899.0	9752.7
37.5°	10636.9	10707.3	10625.2	10805.1	11141.5	11724.4	11880.9	12150.8	12322.9	11712.7	10633.0
40°	11192.4	11078.9	11137.6	11266.7	11611.0	12369.9	12326.8	12604.7	12659.4	12405.1	11454.5
42.5°	11790.9	11736.2	11654.0	11947.4	12236.9	12788.5	12874.6	12745.4	13023.2	13081.9	12628.1
45°	12506.9	12573.3	12585.1	12592.9	12847.2	13328.4	13211.0	13097.6	13418.3	13844.8	13355.7
47.5°	13171.9	12960.6	13113.2	13324.5	13684.3	13688.2	13825.2	13555.2	13895.6	14275.1	14013.0
50°	13394.9	13293.1	13496.6	13895.6	14451.1	14509.8	14525.4	14142.1	14318.1	14619.3	14239.9
52.5°	13308.8	13273.6	13793.9	14412.0	15225.7	15523.1	15601.3	15127.9	15225.7	15088.8	14740.6
55°	12898.0	13003.7	13527.9	14787.6	16035.5	16954.8	17103.5	16504.9	15882.9	15988.5	15605.2
56°	12334.7	12150.8	12737.6	14361.2	16000.3	17420.3	17541.6	16794.4	16371.9	16235.0	15597.4
57.5°	10464.7	10226.1	10996.8	12921.5	15112.2	17244.3	17334.3	16915.7	16289.8	16012.0	14459.0
60°	6126.3	6243.6	7221.6	8911.6	11657.9	14138.2	14439.4	14744.5	14325.9	13081.9	10762.0
62.5°	2957.5	2883.2	3583.4	5109.2	7104.3	9025.1	8935.1	9791.9	10261.3	9295.1	6795.3
65°	1549.2	1541.3	1956.0	2789.3	3904.2	4741.4	4823.6	5285.2	5930.7	4788.4	3450.4
67.5°	1138.4	1169.7	1377.1	1959.9	2511.6	2562.4	2550.6	2781.5	2844.1	2405.9	2120.4
70°	891.9	907.6	1060.2	1490.5	1870.0	1674.4	1639.1	1666.5	1850.4	1928.6	1834.7
72.5°	645.5	661.2	790.2	1005.4	1169.7	1142.3	1165.8	1318.3	1545.3	1627.4	1529.6
75°	430.3	442.1	512.5	614.2	692.4	747.2	790.2	966.3	1177.6	1224.5	1177.6
77.5°	297.3	309.1	356.0	434.3	442.1	477.2	492.9	575.0	704.2	762.9	731.6
80°	168.2	168.2	191.7	223.0	273.8	320.8	328.6	395.1	453.8	492.9	500.7
82.5°	78.2	82.1	101.7	136.9	179.9	223.0	230.8	273.8	316.9	356.0	367.7
85°	39.2	43.1	58.6	82.1	109.5	133.0	129.1	133.0	140.9	133.0	136.9
87.5°	11.7	11.7	15.7	19.6	15.7	19.6	19.6	23.5	27.4	31.3	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°	6161.5	6161.5	6161.5	6161.5	6161.5	6161.5	6161.5	6161.5	6161.5	6161.5	6161.5
2.5°	6196.7	6208.4	6130.2	6204.5	6177.2	6173.3	6228.0	6220.2	6239.7	6231.9	6184.9
5°	6200.6	6173.3	6255.4	6181.0	6216.2	6290.5	6239.7	6357.1	6298.4	6337.5	6251.5
7.5°	6321.9	6329.7	6314.0	6345.4	6329.7	6364.9	6337.5	6364.9	6317.9	6321.9	6400.1
10°	6427.5	6404.0	6431.4	6392.3	6419.7	6407.9	6345.4	6325.8	6341.4	6321.9	6372.8
12.5°	6623.1	6580.1	6560.5	6513.5	6482.3	6364.9	6267.1	6212.3	6286.6	6298.4	6275.0
15°	6822.6	6826.5	6736.5	6630.9	6435.3	6259.3	6282.8	6302.3	6302.3	6333.6	6275.0
17.5°	6947.8	6947.8	6865.7	6654.4	6454.9	6353.2	6329.7	6267.1	6212.3	6204.5	6200.6
20°	7166.9	7100.4	6912.6	6650.5	6447.1	6400.1	6224.1	6075.5	5962.0	5922.8	5918.9
22.5°	7417.3	7249.0	6986.9	6658.3	6435.3	6368.8	6040.2	5817.2	5613.8	5527.7	5539.5
25°	7648.0	7378.1	7029.9	6623.1	6392.3	6071.5	5703.8	5394.7	5183.5	5113.1	5077.8
27.5°	7808.5	7515.1	7029.9	6654.4	6231.9	5739.0	5363.4	4968.3	4784.4	4737.5	4745.3
30°	8023.6	7687.2	7151.2	6587.9	5911.1	5308.7	4858.7	4600.6	4491.1	4451.9	4479.3
32.5°	8528.3	8137.1	7319.5	6427.5	5531.7	4878.3	4514.5	4369.8	4209.3	4131.1	4103.7
35°	9076.0	8563.5	7483.8	6157.6	5105.2	4487.1	4260.2	4127.2	3935.5	3849.5	3865.1
37.5°	9850.5	9111.1	7495.5	5711.6	4643.6	4268.1	4060.7	3853.4	3696.9	3563.9	3524.8
40°	10895.1	9858.4	7468.1	5242.2	4272.0	4009.8	3857.3	3599.1	3423.0	3329.2	3348.7
42.5°	11814.4	10734.7	7354.6	4710.1	3935.5	3833.8	3661.7	3407.4	3235.3	3137.5	3129.7
45°	12589.0	11380.1	7139.5	4256.3	3653.9	3638.2	3438.7	3243.1	3106.2	3016.2	3055.3
47.5°	13304.9	11900.4	6814.8	3802.5	3395.6	3427.0	3235.3	3114.0	3027.9	2945.8	2941.9
50°	13563.0	11892.6	6529.2	3427.0	3188.3	3172.6	3164.9	3035.8	2945.8	2875.3	2906.7
52.5°	13993.4	12025.6	6220.2	3168.7	3000.5	3004.4	3031.9	2938.0	2836.3	2793.2	2832.3
55°	14611.5	12045.2	5539.5	2867.5	2844.1	2871.4	2871.4	2808.9	2722.8	2687.6	2668.0
56°	14106.8	11462.3	4968.3	2789.3	2765.8	2765.8	2840.2	2769.7	2664.1	2636.8	2613.3
57.5°	13011.5	10042.2	4158.5	2695.4	2660.2	2715.0	2754.0	2679.7	2581.9	2542.9	2566.3
60°	8974.3	6795.3	3125.7	2492.0	2492.0	2581.9	2613.3	2503.7	2460.7	2456.7	2425.5
62.5°	5238.3	3959.0	2445.0	2308.1	2316.0	2390.3	2413.8	2351.1	2296.4	2362.9	2394.2
65°	2777.5	2362.9	2096.9	2112.5	2116.4	2175.1	2276.8	2272.9	2269.0	2288.6	2292.5
67.5°	2010.8	1963.8	1905.2	1889.5	1897.4	1940.4	2042.1	2120.4	2116.4	2069.5	2034.2
70°	1791.7	1725.2	1690.0	1693.9	1662.6	1713.5	1795.7	1846.5	1756.5	1701.8	1678.3
72.5°	1490.5	1470.9	1447.5	1451.4	1388.8	1377.1	1283.2	1283.2	1259.7	1244.0	1271.4
75°	1138.4	1130.6	1142.3	1122.7	1056.3	985.9	931.1	880.2	801.9	770.7	755.0
77.5°	719.8	743.3	770.7	727.6	700.2	649.4	594.6	543.8	481.2	446.0	446.0
80°	489.0	508.6	528.1	520.3	489.0	442.1	399.0	344.3	301.2	273.8	269.9
82.5°	371.6	387.3	414.7	383.4	352.1	313.0	277.7	238.7	199.5	168.2	168.2
85°	133.0	152.6	168.2	183.8	195.6	199.5	172.1	140.9	113.5	90.0	86.1
87.5°	35.2	39.2	43.1	39.2	39.2	39.2	43.1	39.2	35.2	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)