

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: P651142

Luminaire Tested: **GALN-SA9C-840-U-T2R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P651142
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-SA9C-840-U-T2R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 4000K, 1050mA 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: 47101.9 lumens
Efficiency: N/A
Efficacy: 97.9 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

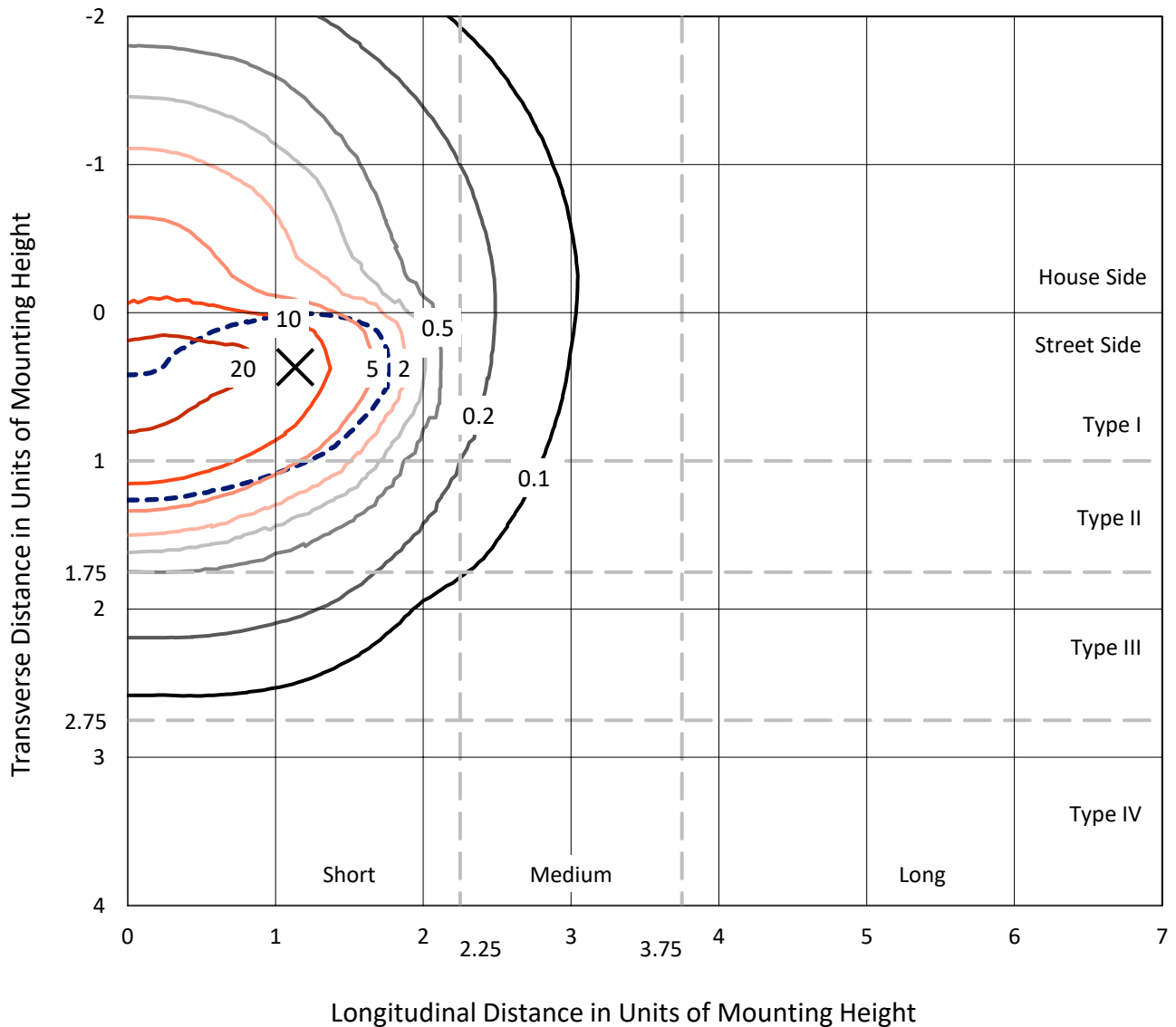
Input Watts (W): 481
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

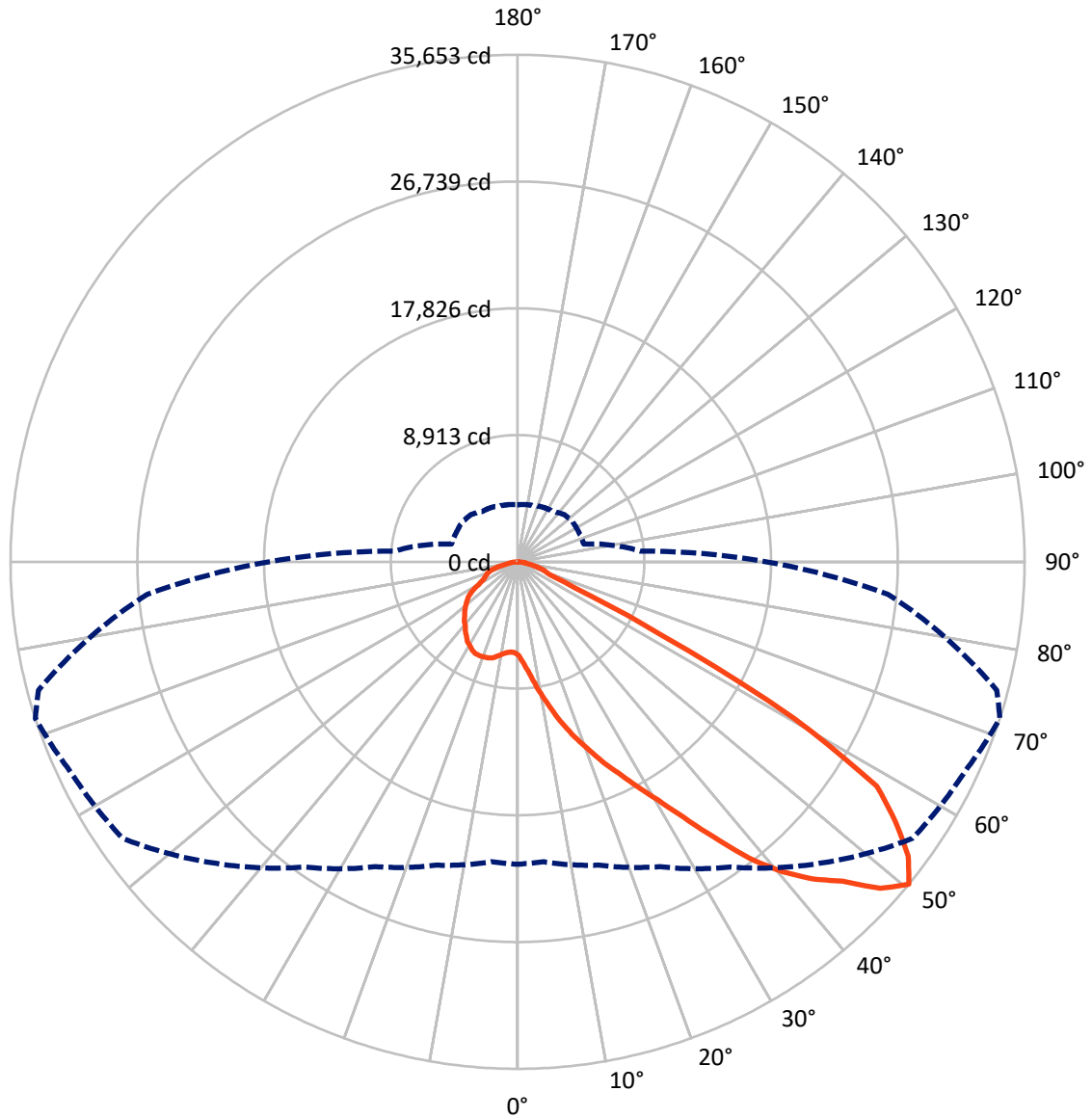
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 23.4 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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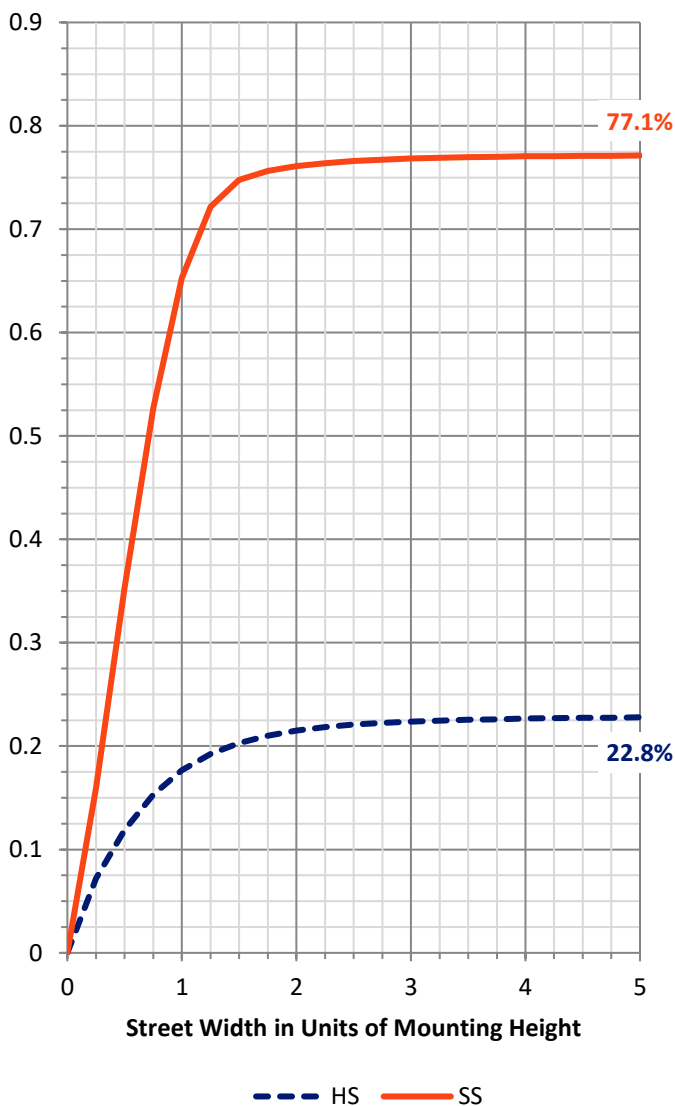
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10791.3	0.0	10791.3
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	36310.6	0.0	36310.6
	% Fixture	77.1	0.0	77.1
Total	Lumens	47101.9	0.0	47101.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	771.3	1.6
10°-20°	2883.3	6.1
20°-30°	5590.4	11.9
30°-40°	9261.4	19.7
40°-50°	12958.7	27.5
50°-60°	10932.4	23.2
60°-70°	3332.2	7.1
70°-80°	1169.0	2.5
80°-90°	203.2	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°	47101.9	100.0
0°-180°	47101.9	100.0

Coefficient of Utilization



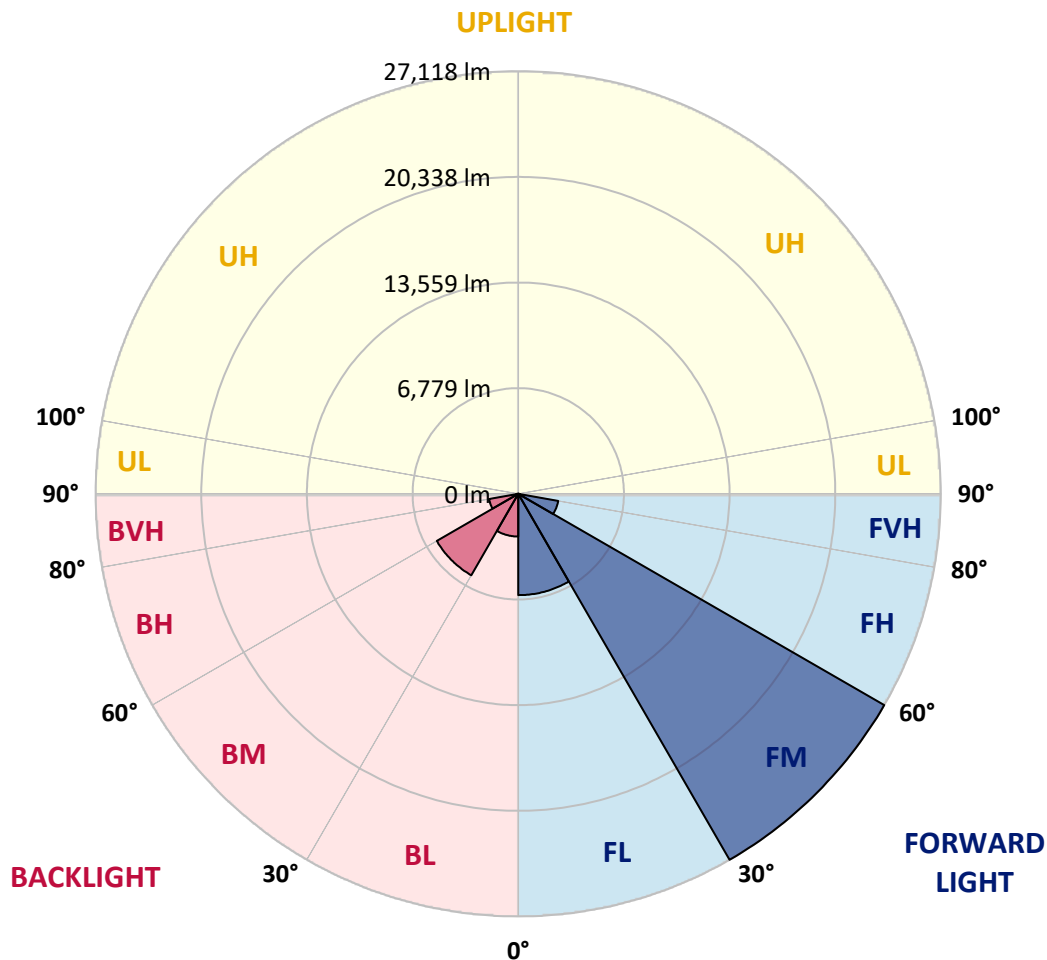
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	6501.8	13.8			
FM	(30°-60°)	27117.8	57.6			
FH	(60°-80°)	2599.9	5.5			G2/5000
FVH	(80°-90°)	91.0	0.2			G1/100
BL	(0°-30°)	2743.2	5.8	B4/5000		
BM	(30°-60°)	6034.7	12.8	B4/8500		
BH	(60°-80°)	1901.2	4.0	B3/2500		G3/2500
BVH	(80°-90°)	112.2	0.2			G2/225
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°	72°	75°	85°
0°	6557.0	6557.0	6557.0	6557.0	6557.0	6557.0	6557.0	6557.0	6557.0	6557.0	6557.0
2.5°	8433.7	8381.3	8223.9	8171.5	7985.0	7646.9	7530.3	7186.4	7040.8	6906.7	6749.4
5°	10666.1	10421.3	10403.8	10106.5	9675.2	9424.6	8678.5	8177.3	7716.8	7483.7	7052.4
7.5°	12088.2	12094.0	12094.0	11849.2	11505.3	10870.0	10199.7	9296.3	8602.8	8258.9	7524.5
10°	13440.4	13323.8	13259.7	13236.3	13003.2	12385.4	11668.5	10549.4	9599.4	9197.3	7880.0
12.5°	14396.2	14297.2	14442.8	14367.1	14198.1	13795.9	13119.8	11843.4	10654.4	10112.4	8451.2
15°	14850.9	14920.8	15037.3	15247.2	15171.4	15019.8	14273.8	13172.2	11790.9	11178.9	8958.3
17.5°	15550.3	15357.9	15497.8	15760.1	15969.9	15899.9	15474.5	14133.9	12915.8	12164.0	9640.2
20°	16039.8	15929.1	15999.0	16302.1	16459.5	16855.8	16634.3	15392.9	13994.1	13201.4	10444.5
22.5°	17438.6	17275.5	17048.2	17094.8	17153.0	17432.8	17485.3	16774.2	15247.2	14407.8	11208.1
25°	19163.9	19012.3	18744.2	18470.3	18301.3	18248.8	18429.5	17858.3	16447.9	15579.4	12029.9
27.5°	21063.9	20807.5	20638.5	20073.2	19618.5	19548.5	19461.2	19152.3	17870.0	16931.6	12956.6
30°	22911.5	22707.6	22480.3	21576.9	21104.7	21029.0	20597.7	20685.1	19414.5	18371.2	14005.7
32.5°	24310.4	24327.9	23809.1	23127.2	22684.3	22282.1	22124.7	22375.3	21396.1	20556.9	15177.3
35°	25441.1	25493.6	24998.1	24380.3	23902.4	24182.2	24112.2	24228.8	23762.5	22736.7	16541.1
37.5°	26542.6	26280.4	25750.0	25452.8	25202.2	25662.6	26257.1	26356.2	26443.6	25237.1	18126.4
40°	26723.4	26746.7	26437.8	26647.6	26332.9	27026.5	28407.8	28279.6	28635.0	27580.2	19845.8
42.5°	26466.9	26519.3	26641.8	26939.0	27696.7	28530.2	30581.8	30057.3	30488.5	29550.1	21518.6
45°	26047.3	25831.6	25983.1	27113.8	28425.3	30278.7	32569.2	32161.3	32021.4	31234.6	23511.9
47.5°	24042.3	24263.8	24735.8	26128.9	28098.9	30581.8	33979.8	33886.5	34306.2	33752.4	25324.5
50°	21262.1	21174.7	22083.9	23651.8	26192.9	29987.3	33904.0	34749.1	35652.5	34883.2	26134.7
52.5°	15923.2	16389.6	17170.5	19117.3	22742.6	26746.7	32248.7	33659.2	34393.5	34230.4	25481.9
55°	10065.7	10205.6	10677.7	12991.6	16255.5	21466.1	27644.3	30914.0	32225.4	32837.3	24881.6
57.5°	4890.1	4627.8	5204.8	7064.1	9389.6	14437.0	21320.4	26927.4	29777.5	30884.9	23576.0
60°	2552.9	2651.9	2879.2	3543.7	4855.1	7495.3	13288.8	17945.8	22299.5	24001.5	17870.0
62.5°	2115.7	2150.7	2302.2	2634.4	3228.9	4313.1	6784.3	8748.5	11371.2	12904.1	10164.7
65°	1795.2	1812.6	1975.8	2197.3	2576.2	3036.6	3491.2	3654.4	4423.7	4540.3	3613.6
67.5°	1497.9	1515.4	1690.2	1900.1	2144.9	2267.3	2383.8	2372.2	2459.6	2424.6	2418.8
70°	1154.0	1171.5	1352.2	1573.7	1696.0	1626.2	1987.5	2069.1	2104.1	2133.2	2179.9
72.5°	833.4	868.4	1008.4	1165.7	1101.5	1264.8	1637.8	1760.2	1806.8	1824.3	1882.6
75°	606.2	617.8	652.8	606.2	699.4	880.1	1154.0	1305.6	1363.8	1381.3	1468.8
77.5°	268.1	273.9	279.8	349.7	448.8	547.9	687.8	810.1	891.7	915.1	938.4
80°	139.9	145.7	180.6	238.9	320.6	402.2	501.2	571.2	623.6	629.5	652.8
82.5°	87.5	93.3	128.3	169.0	227.3	297.2	367.2	425.5	466.3	472.1	477.9
85°	40.8	52.5	75.8	104.9	151.5	192.3	198.1	169.0	180.6	186.5	174.8
87.5°	11.7	17.5	23.3	17.5	23.3	23.3	29.2	35.0	35.0	35.0	40.8
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°	6557.0	6557.0	6557.0	6557.0	6557.0	6557.0	6557.0	6557.0	6557.0	6557.0	6557.0
2.5°	6661.9	6609.4	6405.5	6329.7	6131.5	6166.5	6061.6	6055.7	6032.4	6026.6	6020.8
5°	6825.1	6661.9	6417.1	6230.6	6119.9	6108.2	6032.4	6032.4	6055.7	6073.2	6032.4
7.5°	7093.2	6906.7	6492.9	6318.0	6218.9	6201.4	6149.0	6108.2	6160.7	6143.2	6096.6
10°	7402.1	7075.8	6638.6	6487.1	6323.8	6283.0	6283.0	6300.5	6213.1	6242.2	6195.6
12.5°	7745.9	7308.9	6825.1	6650.2	6457.9	6434.6	6423.0	6294.7	6341.3	6318.0	6201.4
15°	8183.1	7577.0	7064.1	6766.8	6603.6	6498.7	6347.2	6323.8	6294.7	6236.4	6184.0
17.5°	8655.2	7868.4	7174.8	6801.8	6557.0	6481.3	6364.7	6242.2	6154.9	6166.5	6125.7
20°	9057.4	8136.5	7215.6	6836.7	6522.0	6376.3	6195.6	6119.9	6026.6	6020.8	6014.9
22.5°	9535.3	8497.9	7273.9	6743.5	6417.1	6265.5	6143.2	6009.1	5945.0	5863.4	5904.2
25°	10106.5	8637.7	7285.5	6691.1	6341.3	6073.2	6009.1	5863.4	5840.1	5723.5	5746.8
27.5°	10520.3	8713.5	7192.3	6527.8	6166.5	5962.5	5845.9	5741.0	5700.2	5612.7	5589.5
30°	11074.0	8830.1	6994.1	6323.8	5991.6	5764.3	5694.4	5671.0	5554.5	5461.2	5449.6
32.5°	11703.5	8905.9	6865.9	6114.0	5811.0	5636.1	5671.0	5560.4	5414.6	5333.0	5309.7
35°	12204.8	8935.0	6545.3	5875.1	5688.5	5577.8	5537.0	5513.7	5303.9	5228.1	5169.8
37.5°	12968.2	8870.9	6277.2	5706.0	5554.5	5513.7	5478.7	5321.3	5082.4	4971.7	4890.1
40°	13860.0	8853.4	5933.3	5467.1	5426.3	5472.9	5368.0	5123.2	4791.0	4668.6	4610.3
42.5°	14716.8	8975.8	5717.7	5338.8	5286.4	5303.9	5158.2	4791.0	4627.8	4557.8	4464.6
45°	16150.6	9232.2	5362.1	5140.7	5117.4	5105.7	4930.9	4546.2	4452.9	4365.5	4348.0
47.5°	17444.5	9063.2	5134.8	4936.7	4960.0	4895.9	4522.9	4400.4	4295.6	4208.1	4179.0
50°	17520.3	8661.0	4814.3	4779.3	4785.1	4674.4	4318.9	4237.3	4103.2	4045.0	4004.2
52.5°	17123.9	8002.5	4517.0	4528.7	4546.2	4365.5	4068.3	4010.0	3899.2	3817.6	3794.3
55°	16010.7	6976.6	4225.6	4272.3	4318.9	3975.0	3881.7	3736.1	3648.6	3532.0	3537.8
57.5°	14104.8	5618.6	3817.6	3893.4	3992.5	3613.6	3543.7	3363.0	3234.7	3141.6	3129.9
60°	9453.7	3998.3	3205.6	3234.7	3456.3	3304.7	3298.9	3118.2	2943.3	2861.8	2815.2
62.5°	5577.8	3054.1	2768.5	2739.4	2733.5	2821.0	2966.7	2902.5	2675.2	2517.9	2564.5
65°	2920.0	2640.3	2576.2	2477.1	2418.8	2395.5	2506.3	2535.4	2383.8	2214.8	2203.2
67.5°	2453.8	2453.8	2401.3	2366.3	2284.7	2185.7	2115.7	2022.4	1999.1	1952.5	1894.3
70°	2232.3	2290.5	2273.1	2191.5	2121.6	2010.8	1830.1	1678.6	1532.9	1480.4	1515.4
72.5°	1946.7	2004.9	2004.9	1964.2	1870.9	1701.9	1527.1	1352.2	1229.8	1136.5	1124.9
75°	1497.9	1527.1	1597.0	1550.4	1427.9	1323.1	1142.4	961.7	845.1	757.7	740.2
77.5°	955.9	1002.5	1002.5	996.7	909.2	810.1	693.6	565.3	477.9	413.9	396.4
80°	635.3	664.5	687.8	664.5	606.2	530.4	443.0	355.6	291.4	238.9	227.3
82.5°	466.3	501.2	518.7	495.4	437.2	378.9	314.7	250.6	186.5	145.7	134.1
85°	180.6	186.5	209.8	250.6	244.8	238.9	192.3	139.9	104.9	75.8	70.0
87.5°	46.6	40.8	46.6	46.6	40.8	35.0	35.0	35.0	35.0	17.5	23.3
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)