

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: P319808

Luminaire Tested: **GLEON-SA4C-827-U-SL3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319808
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-22)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA4C-827-U-SL3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20976 lumens
Efficiency: N/A
Efficacy: 93.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G4

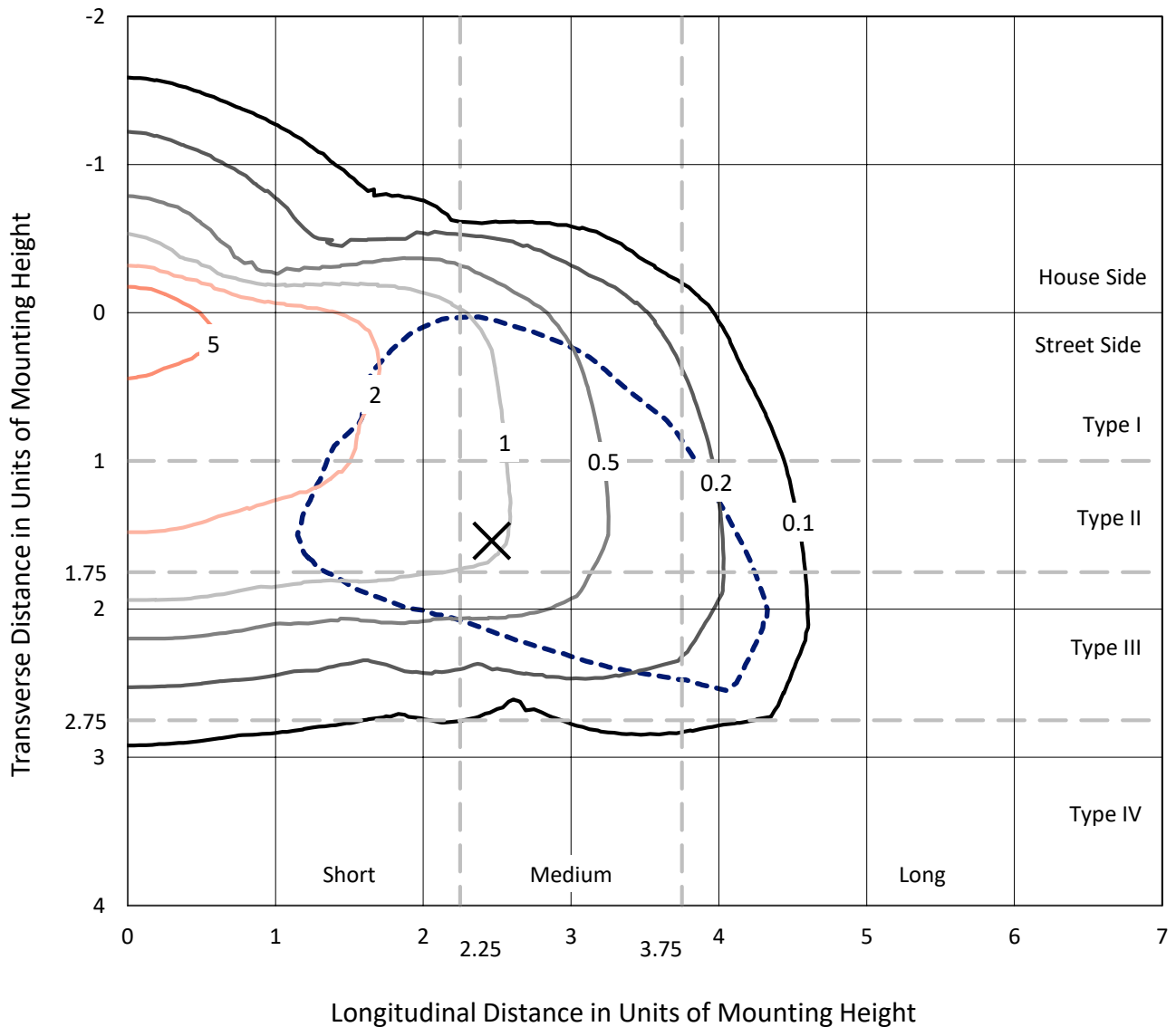
Input Watts (W): 225
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

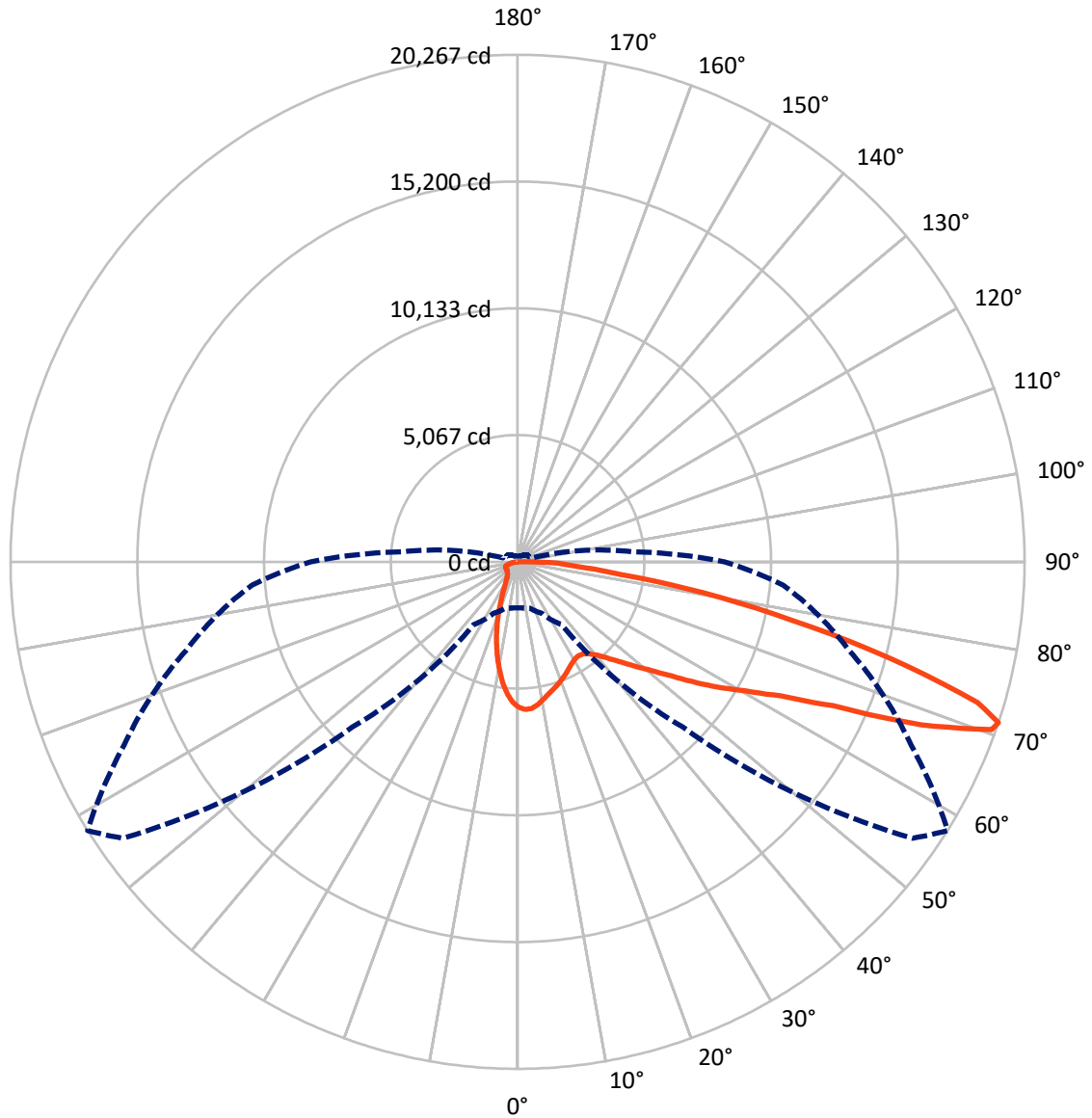
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.3 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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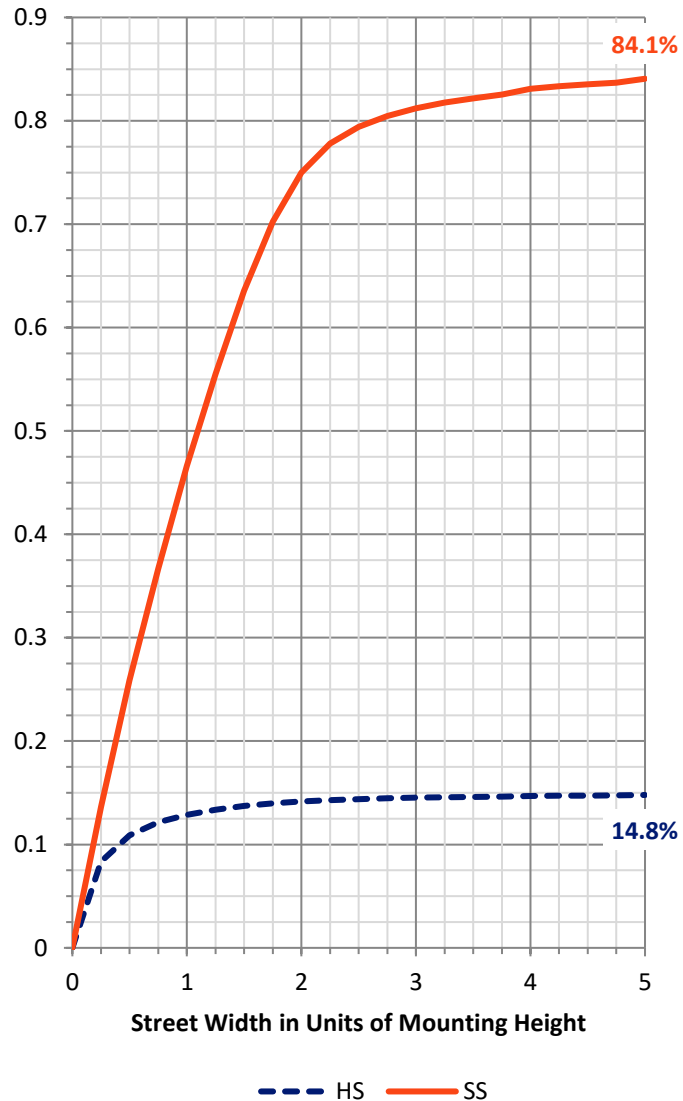
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3136.1	0.0	3136.1
	% Fixture	15.0	0.0	15.0
Street Side	Lumens	17839.9	0.0	17839.9
	% Fixture	85.0	0.0	85.0
Total	Lumens	20976.0	0.0	20976.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	501.4	2.4
10°-20°	1114.9	5.3
20°-30°	1416.9	6.8
30°-40°	1804.8	8.6
40°-50°	2559.4	12.2
50°-60°	3960.7	18.9
60°-70°	5392.0	25.7
70°-80°	3597.1	17.1
80°-90°	628.9	3.0
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°	20976.0	100.0
0°-180°	20976.0	100.0

Coefficient of Utilization

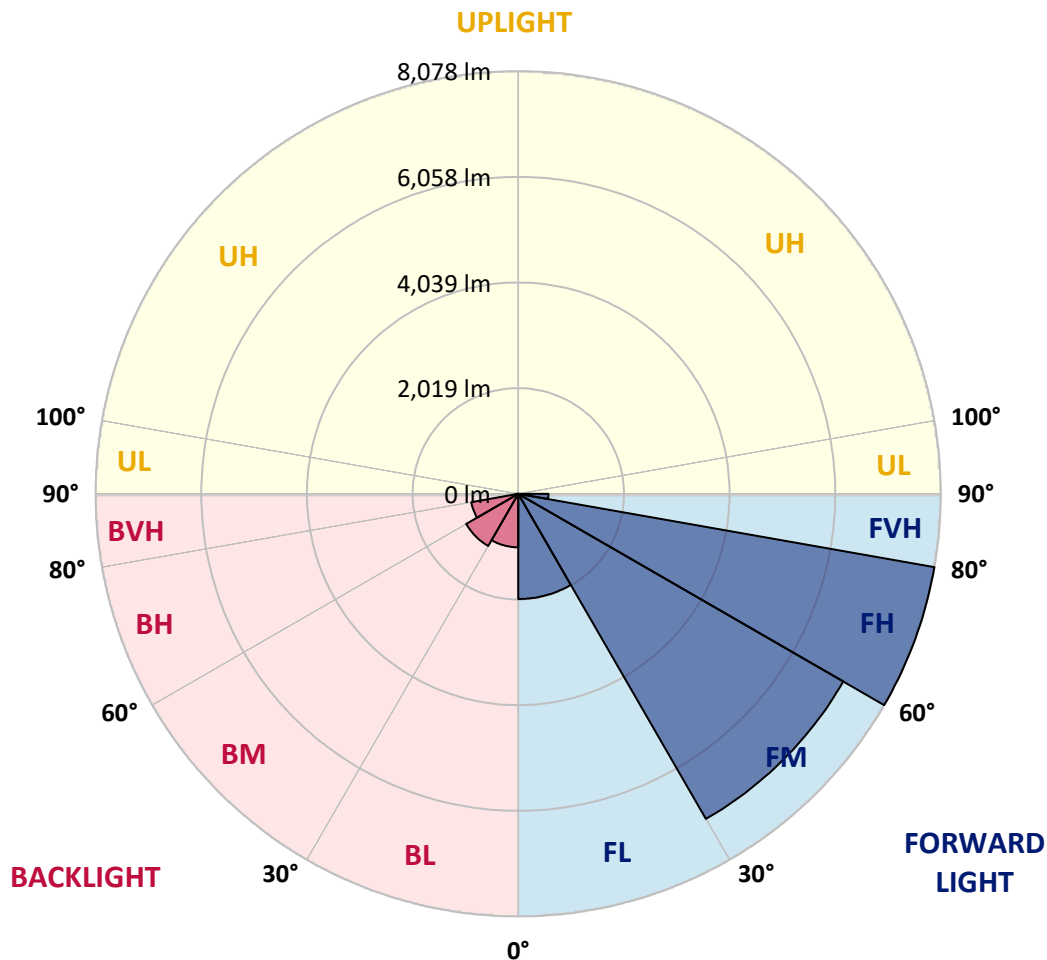


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2010.9	9.6			
FM (30°-60°)	7174.8	34.2			
FH (60°-80°)	8077.6	38.5			G4/12000
FVH (80°-90°)	576.6	2.7			G4/750
BL (0°-30°)	1022.3	4.9	B3/2500		
BM (30°-60°)	1150.1	5.5	B2/2500		
BH (60°-80°)	911.5	4.3	B2/1000		G2/1000
BVH (80°-90°)	52.3	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-G4
 Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	5811.8	5811.8	5811.8	5811.8	5811.8	5811.8	5811.8	5811.8	5811.8	5811.8	5811.8
2.5°	5965.9	5957.9	5960.8	5955.0	5941.1	5927.2	5906.7	5910.4	5881.9	5839.5	5786.9
5°	5853.4	5850.5	5872.4	5884.8	5895.1	5887.0	5881.2	5888.5	5846.8	5788.4	5697.0
7.5°	5617.4	5585.2	5613.0	5654.7	5694.1	5724.1	5763.5	5768.6	5742.3	5681.0	5561.1
10°	5282.0	5251.3	5292.2	5357.3	5436.2	5507.8	5587.4	5602.1	5607.2	5551.6	5406.2
12.5°	4934.2	4910.8	4951.8	5043.1	5173.9	5284.2	5411.3	5433.3	5478.6	5441.3	5263.0
15°	4623.0	4614.2	4663.9	4753.7	4904.3	5073.0	5256.4	5296.6	5373.4	5360.9	5151.2
17.5°	4354.1	4351.9	4389.9	4484.1	4650.7	4864.1	5102.3	5170.2	5284.2	5298.8	5059.2
20°	4153.9	4149.5	4175.8	4245.2	4416.9	4658.8	4935.7	5029.2	5193.6	5244.8	4964.2
22.5°	4046.5	4045.7	4046.5	4079.3	4219.6	4444.7	4773.5	4887.5	5105.2	5201.6	4859.0
25°	4028.2	4026.0	4009.9	4006.3	4085.9	4265.7	4612.7	4738.4	5021.2	5171.7	4758.9
27.5°	4075.7	4078.6	4057.4	4023.1	4039.1	4148.0	4473.2	4607.6	4953.9	5165.8	4689.4
30°	4174.3	4172.9	4154.6	4118.8	4087.4	4104.2	4373.8	4508.2	4908.6	5191.4	4642.0
32.5°	4283.2	4291.2	4287.6	4267.8	4221.1	4153.9	4343.8	4475.4	4895.5	5252.8	4621.5
35°	4414.0	4422.7	4449.1	4464.4	4409.6	4301.5	4408.1	4522.1	4933.5	5368.2	4654.4
37.5°	4538.2	4560.8	4634.6	4699.7	4652.9	4532.3	4579.1	4660.2	5051.1	5550.2	4742.8
40°	4681.4	4701.1	4821.7	4959.8	4952.5	4827.5	4854.6	4908.6	5258.6	5811.0	4902.8
42.5°	4822.4	4861.9	5036.5	5232.3	5288.6	5178.3	5221.4	5249.9	5550.9	6156.6	5181.9
45°	5010.2	5052.6	5295.2	5531.2	5662.7	5600.6	5669.3	5680.2	5918.4	6627.2	5587.4
47.5°	5294.4	5342.7	5625.4	5873.1	6074.1	6080.6	6193.9	6189.5	6377.3	7165.7	6098.2
50°	5737.2	5806.6	6038.3	6269.9	6513.9	6649.8	6801.1	6779.9	6927.5	7739.3	6686.4
52.5°	6317.4	6349.5	6521.2	6692.2	6995.4	7300.1	7517.1	7498.1	7551.5	8328.9	7354.2
55°	6918.7	6942.8	7013.7	7107.2	7514.9	8011.8	8470.7	8440.7	8305.5	8941.2	8014.0
57.5°	7459.4	7508.4	7557.3	7596.1	8038.1	8755.6	9446.1	9448.3	9123.9	9601.7	8695.7
60°	7543.4	7586.6	7910.2	8215.7	8933.2	9747.9	10490.2	10468.3	9970.7	10318.5	9455.6
62.5°	6668.1	6765.3	7306.0	8118.5	9795.4	11562.9	11822.3	11795.2	10983.4	11201.9	10340.5
65°	4778.6	4888.9	5541.4	6762.4	9377.4	13562.7	14226.2	13862.3	12364.4	12288.4	11376.5
67.5°	2756.8	2783.1	3065.9	4046.5	7140.1	13667.2	17893.4	17384.1	14508.9	13521.1	11883.6
70°	2038.6	2037.8	2105.1	2490.1	3863.8	11154.4	19637.5	20094.2	16766.7	13926.6	11166.8
71°	1843.5	1845.7	1920.9	2266.5	3060.0	9336.5	19267.1	20266.6	17361.5	13726.4	10648.1
72.5°	1576.8	1584.1	1688.6	2032.7	2574.2	6438.7	17671.3	19232.0	17643.5	13232.4	9836.3
75°	1196.1	1212.9	1357.6	1713.4	2352.8	3265.4	12969.4	15357.2	15673.6	11676.1	7308.9
77.5°	853.4	872.4	1036.1	1440.9	2236.6	2460.9	8685.5	11201.9	11534.4	7482.8	3296.8
80°	539.2	561.9	685.4	1146.4	2101.4	2336.7	5458.1	7529.6	6289.6	2394.4	838.8
82.5°	316.4	333.9	425.3	748.9	1716.3	2250.5	3211.3	4173.6	2447.7	723.4	381.4
85°	183.4	191.4	265.2	477.1	1246.5	2124.1	2359.3	2333.0	1062.4	353.6	180.5
87.5°	85.5	95.0	157.1	249.2	691.9	1539.5	1864.7	1611.1	660.5	165.9	84.8
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°	5811.8	5811.8	5811.8	5811.8	5811.8	5811.8	5811.8	5811.8	5811.8	5811.8	5811.8
2.5°	5761.3	5748.9	5697.0	5651.0	5602.8	5539.9	5470.5	5461.8	5419.4	5427.4	5412.8
5°	5647.4	5615.9	5491.0	5377.7	5244.0	5124.2	4994.1	4934.2	4848.0	4842.2	4820.2
7.5°	5484.4	5426.0	5232.3	5017.5	4802.7	4598.1	4395.7	4262.7	4126.8	4069.1	4064.0
10°	5301.0	5201.6	4916.7	4598.8	4289.0	3990.2	3700.8	3486.8	3293.9	3202.5	3198.9
12.5°	5127.1	4980.3	4589.3	4156.8	3733.0	3345.7	2949.0	2667.7	2425.8	2344.7	2310.4
15°	4979.5	4772.7	4270.8	3717.7	3203.3	2665.5	2213.9	1918.0	1694.4	1617.0	1602.4
17.5°	4836.3	4570.3	3944.2	3274.1	2652.3	2061.2	1608.9	1389.0	1269.9	1238.5	1237.8
20°	4693.8	4362.1	3602.9	2820.4	2119.7	1541.7	1237.0	1138.4	1098.2	1094.5	1088.7
22.5°	4532.3	4141.4	3244.2	2365.2	1654.2	1212.2	1051.4	1012.0	1006.9	1020.0	1020.0
25°	4381.1	3922.2	2880.3	1919.5	1286.7	1011.2	938.9	930.9	944.8	968.1	970.3
27.5°	4240.1	3711.1	2525.2	1523.4	1031.0	890.7	860.7	870.2	895.1	922.1	922.8
30°	4123.9	3511.6	2180.3	1200.5	871.0	800.8	795.7	814.7	841.7	862.9	868.0
32.5°	4034.0	3341.4	1847.1	965.2	766.5	733.6	738.0	754.1	770.9	782.5	790.6
35°	3992.4	3195.2	1539.5	814.0	700.0	681.7	687.6	696.3	703.6	712.4	719.0
37.5°	3999.7	3082.0	1264.8	719.7	655.4	645.9	645.9	645.9	645.9	650.3	651.0
40°	4067.6	3016.9	1041.2	659.8	625.5	615.2	607.2	599.9	594.0	597.0	595.5
42.5°	4241.5	3011.1	877.5	621.8	601.3	584.5	568.5	558.2	550.9	553.8	555.3
45°	4536.7	3084.2	767.2	594.8	578.7	553.1	532.7	521.7	516.6	526.1	527.5
47.5°	4918.9	3243.4	700.0	575.0	557.5	523.9	502.0	491.7	493.2	507.1	510.7
50°	5411.3	3502.1	667.8	562.6	542.9	499.0	476.4	467.6	472.0	491.7	496.1
52.5°	5952.0	3874.7	671.5	559.0	533.4	480.8	456.7	446.4	453.7	472.0	475.7
55°	6576.0	4322.6	732.1	564.1	519.5	469.1	440.6	423.1	428.9	445.7	448.6
57.5°	7269.4	4835.6	854.2	562.6	502.0	458.1	423.8	397.5	401.9	412.1	415.0
60°	7991.3	5455.2	1043.4	567.0	493.9	445.0	401.1	368.3	366.8	375.6	377.0
62.5°	8857.9	6172.0	1259.7	569.9	499.0	428.2	371.2	339.0	334.6	336.8	338.3
65°	9750.8	6690.8	1178.6	558.2	515.1	414.3	344.9	310.5	302.5	301.0	301.8
67.5°	9778.6	6134.7	826.4	534.9	521.7	407.0	325.1	286.4	273.3	268.2	267.4
70°	8769.5	4983.9	643.7	510.0	495.4	395.3	306.9	266.7	247.0	238.9	238.2
71°	8277.0	4587.9	610.1	497.6	475.7	383.6	298.8	257.9	237.5	228.7	227.2
72.5°	7504.7	4112.9	569.2	477.9	437.7	353.6	283.5	245.5	224.3	214.1	211.9
75°	5385.8	2689.6	488.8	426.0	362.4	282.0	248.4	220.7	202.4	190.0	188.5
77.5°	2075.1	1070.4	369.7	354.4	277.7	220.7	204.6	190.7	177.6	165.1	164.4
80°	641.5	478.6	269.6	266.7	200.9	164.4	159.3	155.6	150.5	137.4	134.4
82.5°	342.7	274.7	185.6	172.4	131.5	109.6	115.4	116.9	117.6	103.8	102.3
85°	163.7	145.4	104.5	97.9	76.7	61.4	70.9	76.7	77.5	63.6	59.2
87.5°	78.2	76.0	49.0	37.3	28.5	20.5	24.8	30.7	33.6	24.1	21.2
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)