

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: P383638

Luminaire Tested: **GLEON-SA9B-735-U-AFL**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383638
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-29)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA9B-735-U-AFL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 48824.3 lumens
Efficiency: N/A
Efficacy: 130.5 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G4

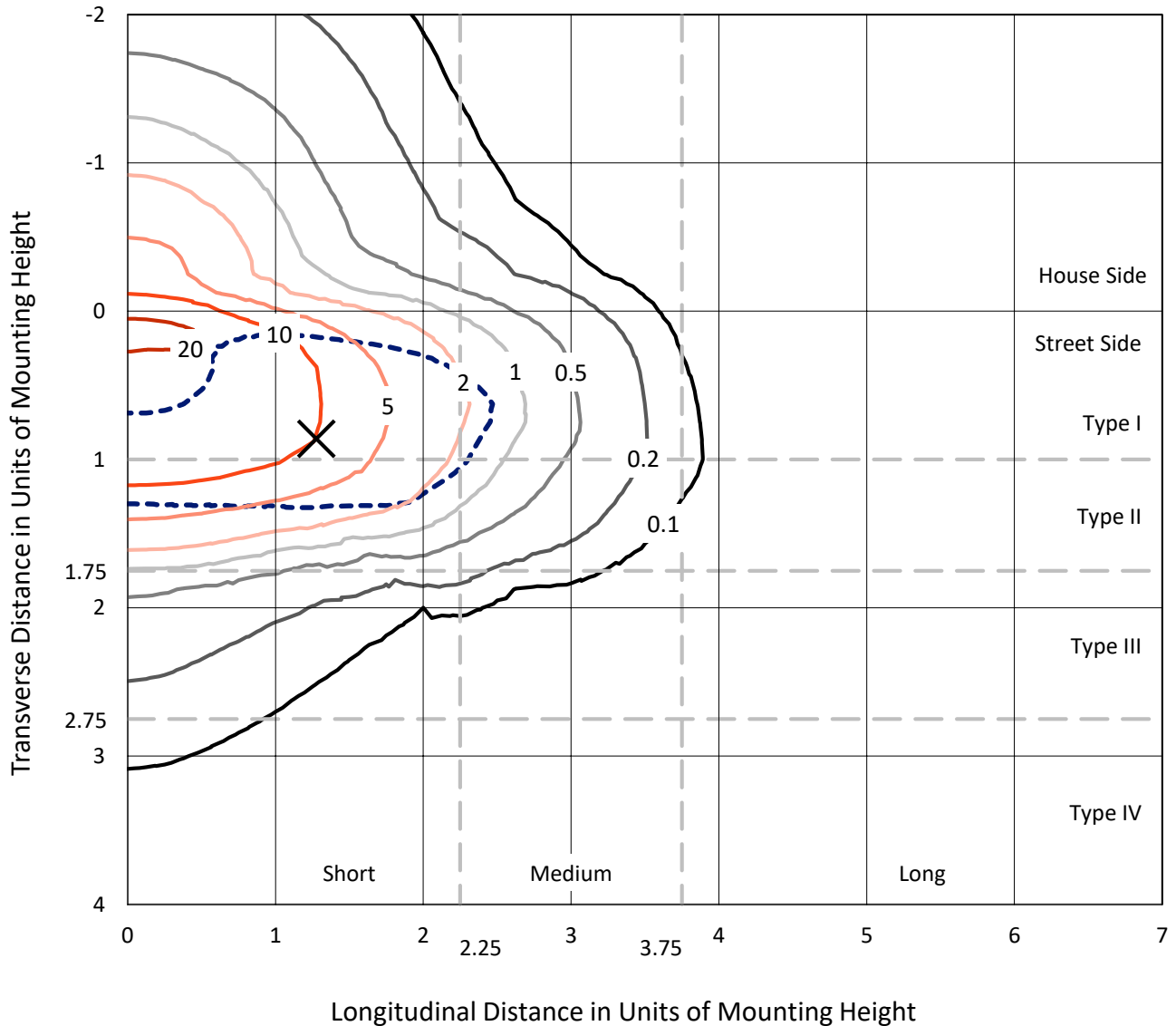
Input Watts (W): 374
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

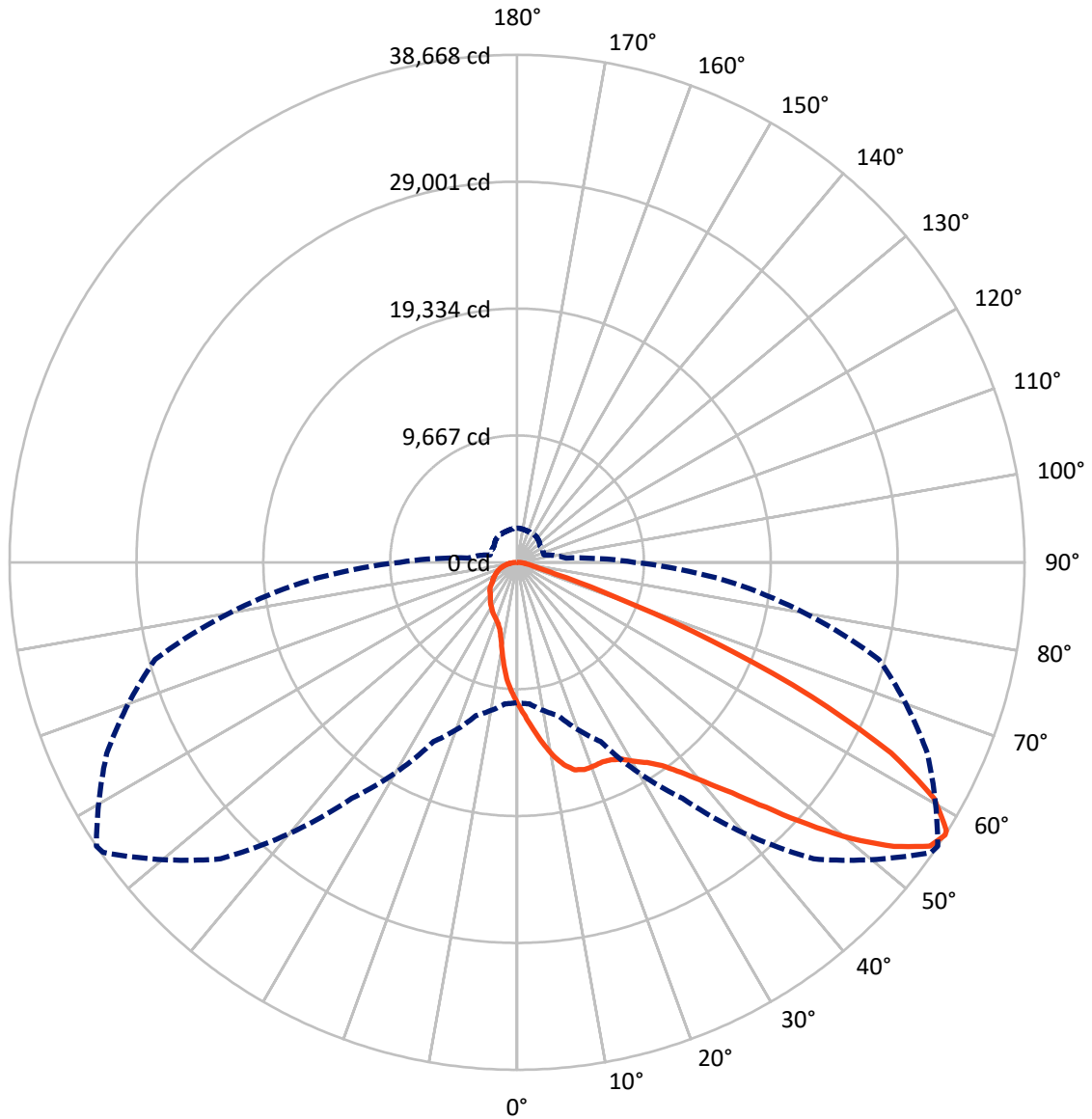
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 24 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral - - - Horizontal Cone Through 57-Deg Vertical

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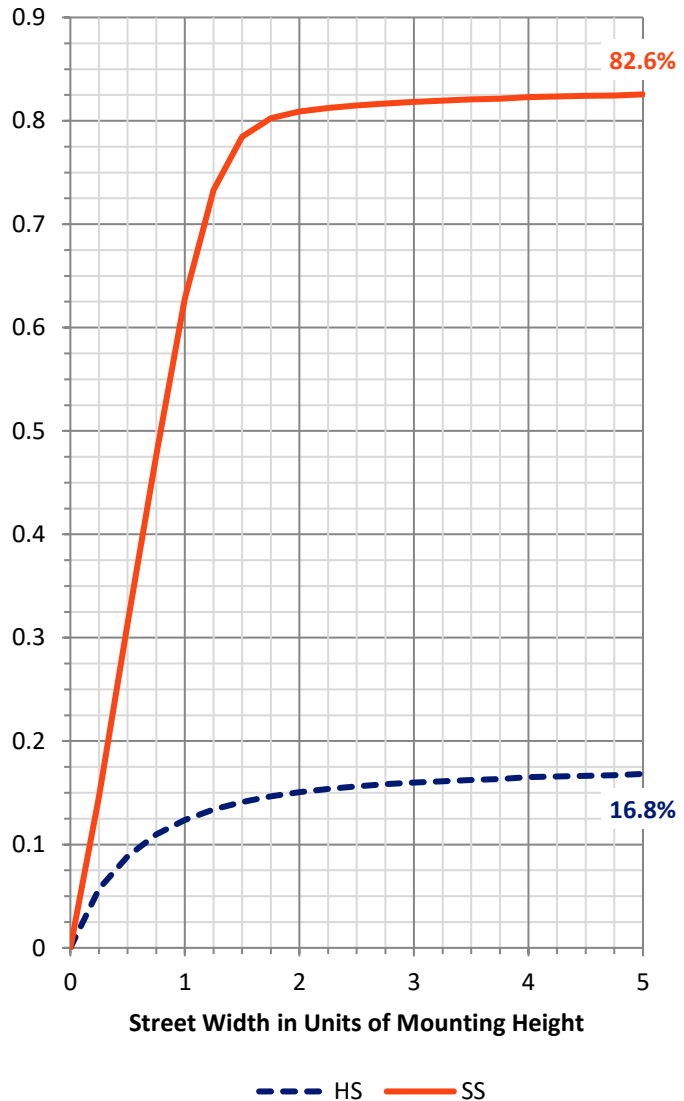
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8416.3	0.0	8416.3
	% Fixture	17.2	0.0	17.2
Street Side	Lumens	40408.0	0.0	40408.0
	% Fixture	82.8	0.0	82.8
Total	Lumens	48824.3	0.0	48824.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1034.5	2.1
10°-20°	2924.7	6.0
20°-30°	4763.7	9.8
30°-40°	7121.2	14.6
40°-50°	10801.4	22.1
50°-60°	12106.5	24.8
60°-70°	7150.6	14.6
70°-80°	2342.8	4.8
80°-90°	578.8	1.2
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°	48824.3	100.0
0°-180°	48824.3	100.0

Coefficient of Utilization



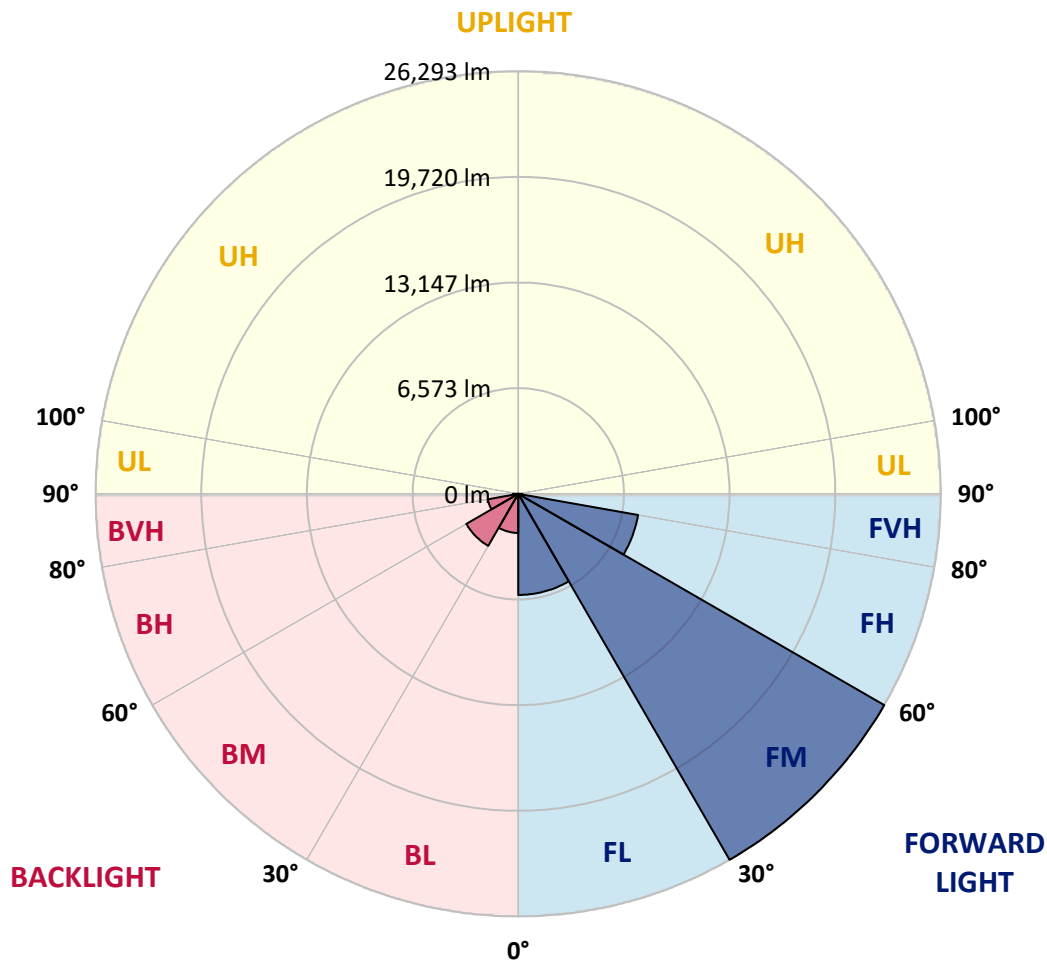
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	6289.3	12.9			
FM (30°-60°)	26293.5	53.9			
FH (60°-80°)	7570.4	15.5			G4/12000
FVH (80°-90°)	254.9	0.5			G3/500
BL (0°-30°)	2433.6	5.0	B3/2500		
BM (30°-60°)	3735.7	7.7	B3/5000		
BH (60°-80°)	1923.0	3.9	B3/2500		G3/2500
BVH (80°-90°)	324.0	0.7			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	10829.2	10829.2	10829.2	10829.2	10829.2	10829.2	10829.2	10829.2	10829.2	10829.2	10829.2
2.5°	12435.0	12549.2	12498.8	12324.3	12190.0	12000.5	11789.0	11725.3	11502.1	11252.1	10951.7
5°	14403.2	14346.2	14264.0	13992.1	13705.2	13371.3	12841.1	12757.2	12260.6	11695.1	11097.7
7.5°	15524.1	15519.0	15470.4	15311.0	15049.2	14613.0	13973.7	13874.7	13124.7	12215.2	11289.1
10°	15361.3	15349.6	15430.2	15596.2	15675.1	15584.5	15045.9	14946.9	14025.7	12790.7	11510.5
12.5°	14436.8	14443.5	14572.7	14921.7	15396.5	15967.0	15879.8	15831.1	14960.3	13441.8	11779.0
15°	13716.9	13732.0	13834.4	14138.1	14698.5	15733.8	16386.5	16403.3	15864.7	14159.9	12092.7
17.5°	13401.5	13433.4	13480.3	13693.5	14206.9	15269.0	16507.3	16597.9	16656.6	14904.9	12394.8
20°	13502.2	13532.4	13545.8	13681.7	14102.9	14987.1	16423.5	16586.2	17264.1	15606.3	12696.8
22.5°	13953.6	13972.0	13980.4	14015.6	14342.9	15067.7	16368.0	16539.3	17703.7	16235.5	12924.9
25°	14701.9	14688.5	14634.8	14589.4	14809.3	15386.5	16495.6	16658.3	18061.1	16806.1	13074.4
27.5°	15597.9	15581.2	15477.1	15352.9	15478.8	15883.2	16863.1	16992.3	18381.6	17339.5	13149.8
30°	16673.5	16629.8	16433.5	16285.9	16334.5	16628.1	17468.8	17586.2	18876.5	17945.3	13223.7
32.5°	17916.8	17869.8	17586.2	17341.2	17341.2	17586.2	18093.0	18190.3	19296.1	18629.9	13342.7
35°	19473.9	19415.1	19046.0	18635.0	18519.2	18643.3	18943.7	19012.4	20051.1	19492.4	13559.2
37.5°	21309.5	21230.6	20752.5	20202.1	19948.7	19942.0	20158.5	20299.4	21257.5	20624.9	13926.7
40°	23150.2	23094.8	22677.0	22244.1	21747.4	21588.1	21921.9	21965.6	22834.7	22031.0	14396.5
42.5°	24573.1	24563.0	24485.8	24542.8	24034.5	23712.3	23974.0	24009.3	24761.0	23552.9	14896.6
45°	25324.8	25341.5	25715.7	26544.6	26732.5	26497.7	26626.9	26637.0	26962.4	25088.2	15354.6
47.5°	24722.4	24809.6	25756.0	27610.1	29148.8	29928.9	29714.2	29838.4	29096.7	26407.0	15713.7
50°	22375.0	22482.4	24093.2	27135.2	30276.3	33249.5	33137.2	33108.6	30818.3	27373.5	15908.3
52.5°	19467.2	19551.0	20880.0	24667.0	29449.1	35085.2	36117.1	35969.5	32348.5	28096.7	15945.2
55°	15039.2	15170.1	16443.6	19740.7	26103.4	34383.9	38308.5	38175.9	33742.9	28475.9	15901.6
57°	10691.7	10829.2	12094.4	15066.0	21958.9	31955.9	38526.7	38667.6	34496.2	28539.6	15950.2
57.5°	9540.6	9681.6	10935.0	13821.0	20666.8	31078.4	38338.7	38573.6	34632.1	28529.6	15977.2
60°	4803.9	4857.6	5656.3	7715.1	13064.2	25125.1	35887.2	36493.0	34754.6	28036.3	16092.9
62.5°	2986.7	2948.1	2922.9	3553.9	6355.9	16661.7	30828.4	31994.5	32410.6	26841.6	15812.6
65°	2625.9	2553.7	2276.9	2226.6	2807.1	8092.6	23215.7	24667.0	27402.0	24959.0	15144.8
67.5°	2466.6	2396.0	2084.0	1896.1	1897.7	3208.2	14413.3	16047.6	21346.4	21775.9	13569.3
70°	2302.1	2238.3	1946.4	1724.9	1615.9	1776.9	6631.1	7871.1	13915.0	17116.4	11341.0
72.5°	2090.7	2047.1	1770.2	1542.0	1426.2	1330.6	2538.7	2998.5	8055.7	11495.4	7876.1
75°	1869.2	1828.9	1592.4	1374.2	1233.3	1047.1	1429.6	1540.3	4092.5	5881.1	3877.7
77.5°	1625.9	1602.4	1416.1	1214.8	1102.4	867.5	1011.8	1065.5	1755.1	2521.9	1944.7
80°	1293.6	1339.0	1238.3	1082.3	978.2	694.7	716.5	751.7	1021.8	1231.6	1104.1
82.5°	842.3	921.2	969.8	879.2	805.4	547.0	515.1	530.2	666.1	751.7	479.8
85°	350.7	394.3	637.6	575.5	535.3	399.4	345.6	352.4	412.8	427.9	196.3
87.5°	156.0	166.1	280.2	263.4	226.6	137.6	147.7	161.1	219.8	208.1	75.5
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°	10829.2	10829.2	10829.2	10829.2	10829.2	10829.2	10829.2	10829.2	10829.2	10829.2	10829.2
2.5°	10839.3	10698.4	10456.8	10190.0	9971.8	9797.4	9621.2	9500.4	9359.4	9283.9	9245.3
5°	10847.7	10570.8	10062.5	9540.6	9074.2	8648.0	8242.0	7929.8	7637.9	7480.1	7436.5
7.5°	10883.0	10466.9	9644.7	8785.6	7956.7	7199.9	6616.0	6250.2	5986.8	5869.3	5835.8
10°	10911.5	10344.4	9127.9	7856.0	6728.5	5961.6	5508.6	5303.9	5213.3	5198.2	5183.0
12.5°	10978.6	10218.5	8584.2	6886.2	5773.7	5243.5	5085.8	5072.4	5097.5	5134.4	5134.4
15°	11084.3	10094.3	7963.4	6053.9	5166.3	4980.1	5011.9	5085.8	5154.5	5211.6	5220.0
17.5°	11161.5	9941.7	7295.6	5387.8	4842.5	4892.8	5006.9	5110.9	5181.4	5236.8	5241.8
20°	11216.9	9705.0	6582.5	4879.4	4656.2	4812.3	4954.9	5047.1	5095.8	5151.2	5159.6
22.5°	11188.4	9388.0	5949.9	4515.3	4505.2	4694.8	4830.7	4941.5	4904.5	4850.8	4886.1
25°	11050.8	8951.7	5298.8	4243.5	4345.8	4537.1	4704.9	4631.0	4506.9	4483.4	4496.9
27.5°	10805.8	8394.6	4696.5	3991.8	4161.2	4391.1	4381.1	4307.2	4263.6	4233.4	4251.9
30°	10542.3	7790.5	4169.6	3771.9	3956.6	4146.1	4107.6	4105.9	4062.2	4013.6	4037.0
32.5°	10282.2	7183.2	3751.8	3590.7	3802.1	3827.4	3911.2	3936.3	3850.8	3748.5	3741.7
35°	10055.8	6609.3	3434.7	3426.3	3615.9	3619.2	3741.7	3706.5	3493.4	3387.7	3387.7
37.5°	9886.2	6037.2	3193.1	3278.7	3370.9	3458.2	3520.2	3374.3	3339.0	3280.4	3278.7
40°	9812.5	5533.8	3042.1	3166.2	3198.1	3308.9	3149.5	3206.5	3223.2	3193.1	3193.1
42.5°	9735.2	5095.8	2911.2	3080.6	3075.6	3060.5	2980.0	3053.8	3121.0	3122.6	3117.6
45°	9658.1	4718.3	2795.4	2897.8	2968.2	2805.4	2820.5	2899.4	2993.4	3027.0	3027.0
47.5°	9572.5	4419.6	2689.7	2704.8	2813.8	2704.8	2693.0	2753.5	2864.2	2917.9	2929.6
50°	9384.6	4151.2	2568.9	2535.3	2565.6	2602.5	2612.5	2641.0	2763.5	2849.1	2869.3
52.5°	9124.5	3911.2	2414.5	2379.3	2379.3	2518.5	2565.6	2574.0	2677.9	2780.3	2800.4
55°	8908.0	3758.5	2255.1	2248.4	2241.7	2429.7	2510.1	2523.6	2595.8	2676.2	2686.3
57°	8923.2	3746.8	2132.6	2139.3	2137.6	2339.0	2458.2	2486.7	2523.6	2592.4	2604.1
57.5°	8931.6	3755.2	2105.8	2109.1	2107.4	2313.9	2443.1	2474.9	2503.4	2575.6	2587.4
60°	9057.3	3777.0	1996.7	1959.8	1968.2	2179.6	2357.5	2397.7	2416.2	2511.8	2526.9
62.5°	8871.1	3679.7	1909.5	1820.5	1820.5	2038.7	2238.3	2302.1	2330.6	2459.8	2485.0
65°	8330.8	3406.2	1807.1	1662.8	1679.6	1897.7	2095.7	2199.8	2243.4	2404.4	2431.3
67.5°	7496.9	3089.0	1698.0	1521.9	1538.6	1750.1	1948.1	2060.5	2129.2	2344.1	2365.9
70°	6411.3	2701.5	1550.4	1372.5	1392.7	1588.9	1773.6	1901.1	2003.4	2287.0	2293.7
72.5°	4726.7	2214.8	1344.0	1208.1	1229.9	1401.0	1597.4	1745.1	1882.7	2144.4	2141.0
75°	2810.5	1731.7	1115.8	1042.0	1057.1	1216.5	1437.9	1617.5	1823.9	2089.0	2120.9
77.5°	1704.7	1303.7	909.5	872.5	890.9	1053.8	1323.9	1515.2	1798.7	1969.9	1959.8
80°	1030.2	931.3	726.5	703.0	721.5	901.1	1224.9	1437.9	1572.2	1682.9	1682.9
82.5°	538.6	568.8	533.6	515.1	540.3	731.5	1114.1	1255.1	1389.3	1193.0	1114.1
85°	219.8	297.0	323.8	322.1	337.2	506.8	961.5	1073.9	896.0	850.7	870.8
87.5°	73.9	125.9	157.7	135.9	142.6	318.8	666.1	518.5	615.8	429.5	407.7
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)