

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: P651113

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

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P651113
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-28)
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-AFL-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 48366.8 lumens
Efficiency: N/A
Efficacy: 100.6 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

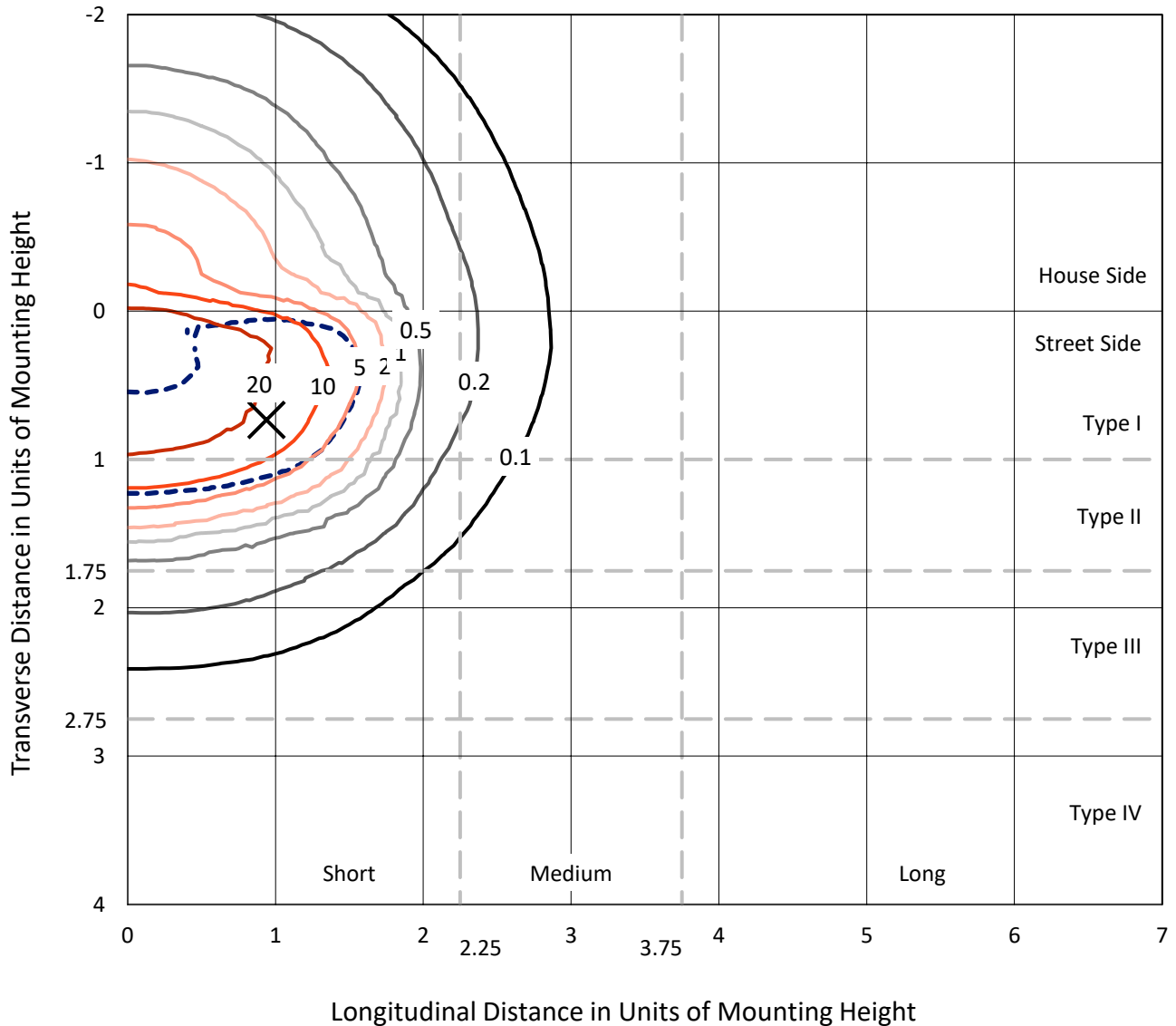
Input Watts (W): 481
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

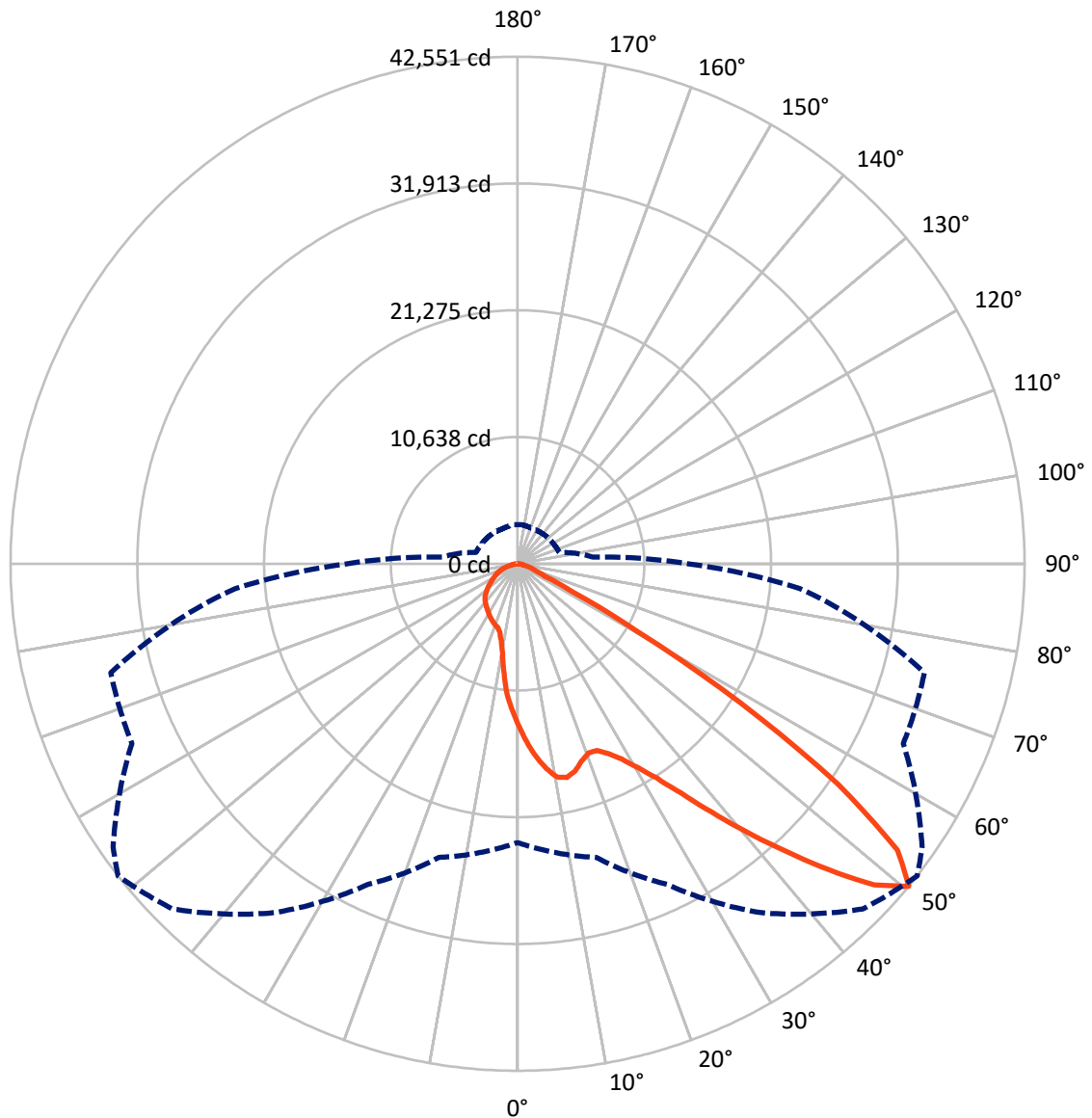
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 27.9 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 52-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical



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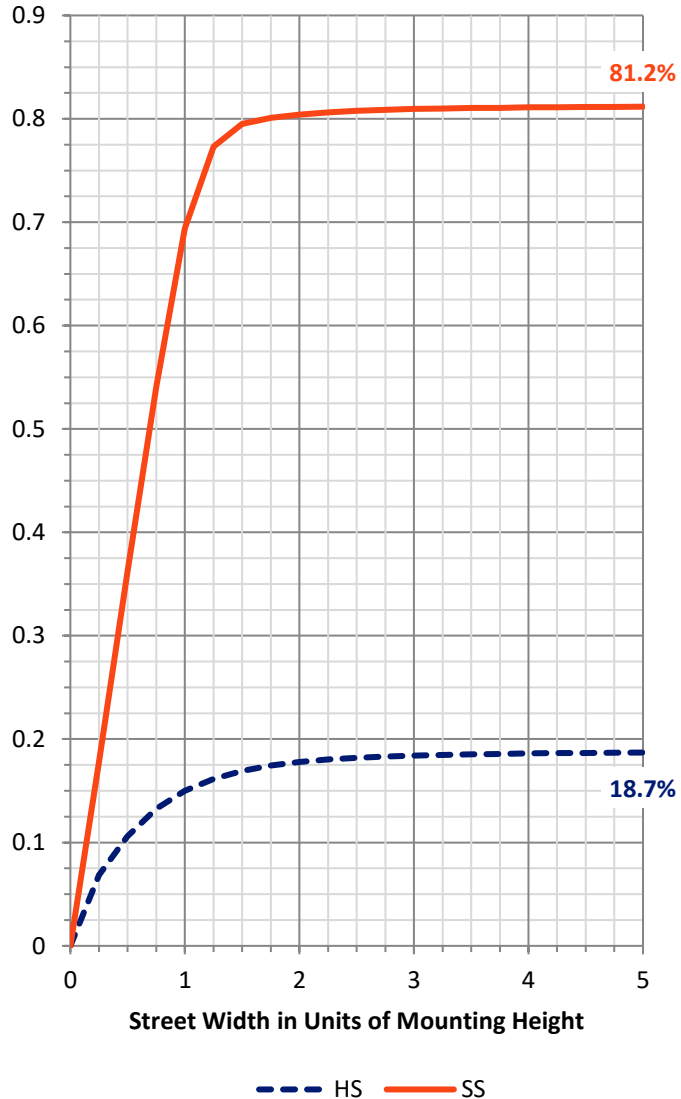
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9091.8	0.0	9091.8
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	39275.0	0.0	39275.0
	% Fixture	81.2	0.0	81.2
Total	Lumens	48366.8	0.0	48366.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1256.6	2.6
10°-20°	3368.1	7.0
20°-30°	5673.4	11.7
30°-40°	9520.4	19.7
40°-50°	14563.8	30.1
50°-60°	10618.2	22.0
60°-70°	2363.1	4.9
70°-80°	852.3	1.8
80°-90°	150.9	0.3
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°	48366.8	100.0
0°-180°	48366.8	100.0

Coefficient of Utilization

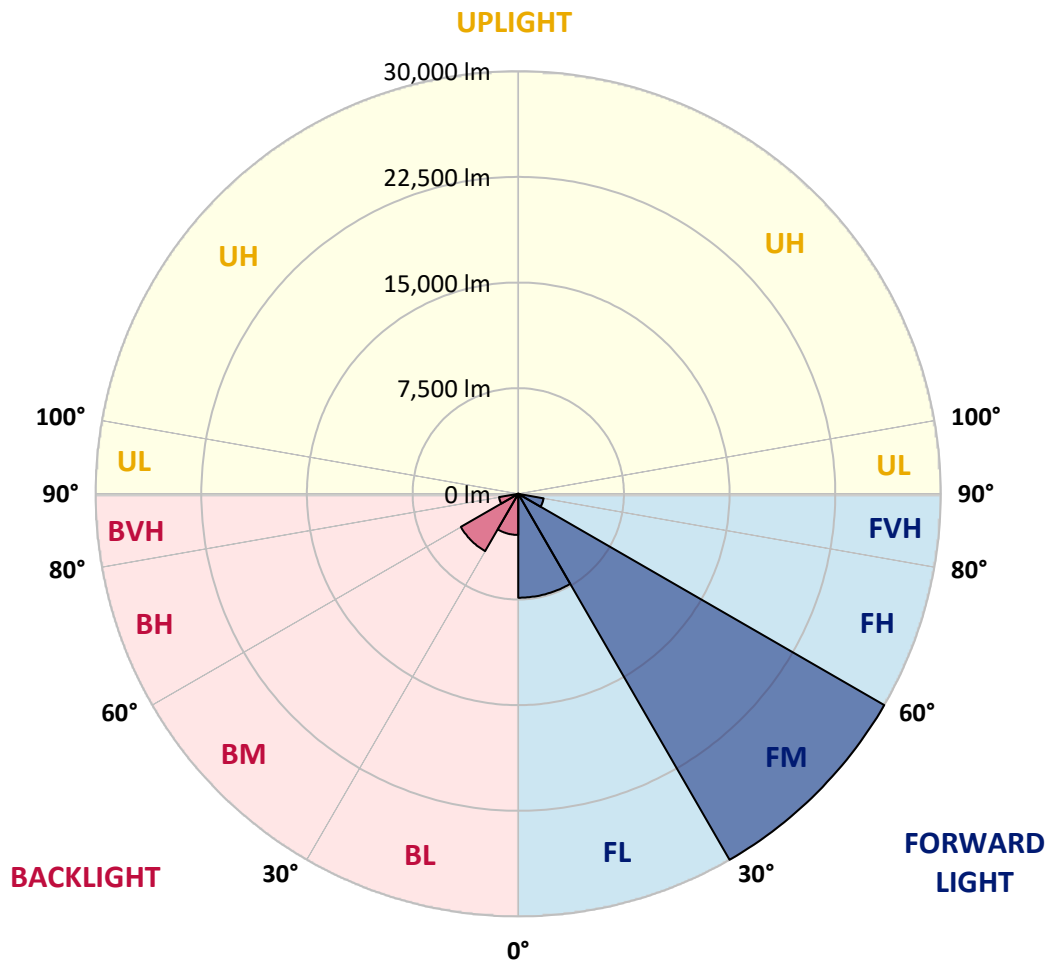


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	7377.6	15.3			
FM (30°-60°)	29999.5	62.0			
FH (60°-80°)	1830.2	3.8			G2/5000
FVH (80°-90°)	67.6	0.1			G1/100
BL (0°-30°)	2920.5	6.0	B4/5000		
BM (30°-60°)	4702.9	9.7	B3/5000		
BH (60°-80°)	1385.2	2.9	B3/2500		G3/2500
BVH (80°-90°)	83.3	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G3
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	52°	55°	65°	75°	85°
0°	13633.8	13633.8	13633.8	13633.8	13633.8	13633.8	13633.8	13633.8	13633.8	13633.8	13633.8
2.5°	16052.8	15743.9	15778.8	15557.3	15318.3	15248.4	15003.6	14770.4	14595.6	14222.5	13878.6
5°	17544.9	17451.7	17311.8	17137.0	16956.2	16513.3	16262.6	15971.2	15330.0	14752.9	14181.7
7.5°	17760.7	17743.2	17818.9	17818.9	17883.0	17714.0	17358.4	17154.5	16472.5	15534.0	14473.1
10°	16245.1	16297.6	16664.8	17142.8	17807.2	18267.8	18209.5	18157.0	17410.9	16128.5	14817.1
12.5°	15038.5	14921.9	15137.7	15545.6	16542.4	17655.7	18407.6	18413.4	18221.1	17078.7	15067.7
15°	14356.5	14438.2	14496.5	14688.8	15440.8	16728.9	18052.1	18442.6	19287.8	17749.0	15464.1
17.5°	14793.7	14519.8	14508.1	14554.8	14939.4	15907.1	17393.4	18063.8	19870.7	18611.7	15953.7
20°	15365.0	15359.1	15195.9	15137.7	15131.8	15994.5	16962.0	17871.4	20179.6	19730.8	16449.1
22.5°	16367.5	16367.5	16099.4	15971.2	15697.2	16402.5	17020.4	17638.2	20692.6	20500.2	16688.1
25°	18046.3	17772.3	17311.8	16997.0	16839.7	17090.3	17638.2	18192.0	21141.4	21316.2	17183.6
27.5°	19596.7	19165.4	18938.1	18396.0	18186.1	18040.5	18541.7	19101.3	21666.0	22587.0	17451.7
30°	21357.1	21281.3	20873.3	20173.8	19655.0	19386.9	19847.3	20401.1	22627.8	23886.8	18069.6
32.5°	24504.6	23816.9	23263.2	22406.3	21561.1	20989.8	21444.5	21811.8	24224.9	25245.0	18745.7
35°	27903.0	27681.4	26725.5	25180.8	23886.8	23373.8	23642.0	23915.9	26084.3	27320.1	19882.3
37.5°	31242.9	30939.8	30152.9	28853.0	27279.3	26235.8	26428.2	26748.8	28171.1	30117.9	21269.6
40°	33644.4	33271.3	32874.9	32682.6	31120.4	29692.4	29581.7	29663.2	30992.2	32740.9	22808.4
42.5°	33819.2	34279.7	34402.1	35177.3	34810.2	33638.6	32956.6	32974.1	33685.2	35334.8	24364.8
45°	33452.0	33026.5	33930.0	36045.8	37258.3	37806.2	36657.9	36512.2	35352.3	36838.6	25140.0
47.5°	29599.2	29715.7	31242.9	34588.6	38091.8	40540.0	40271.9	39788.0	36244.1	36786.2	25017.6
50°	23397.2	24102.5	25518.9	29686.5	35760.2	40971.3	42550.9	41431.8	35713.7	35340.6	23770.2
52.5°	15580.6	15872.1	16804.7	22184.7	28754.0	36622.9	39927.9	40184.4	35224.0	33446.2	22190.6
55°	6936.4	6913.1	8224.6	11587.8	18040.5	27868.0	32624.3	34186.5	33341.3	31516.8	20651.8
57.5°	2937.8	3036.9	3573.1	5007.1	8871.5	16816.4	22103.2	23473.0	25641.3	25880.3	15842.9
60°	1987.6	1999.3	2145.1	2506.4	3713.0	7898.2	11593.7	13237.4	14787.9	14683.0	8405.3
62.5°	1562.2	1602.9	1713.7	1859.5	2203.3	3584.8	5187.7	6102.9	6202.0	5216.9	3188.4
65°	1334.8	1340.6	1451.4	1573.8	1725.3	2086.8	2500.6	2547.2	2576.4	2483.1	2343.2
67.5°	1101.6	1113.3	1200.8	1340.6	1480.6	1597.1	1713.7	1772.0	1906.0	2168.4	2133.4
70°	874.3	891.8	967.6	1084.1	1212.4	1282.4	1428.1	1480.6	1602.9	1807.0	1888.5
72.5°	664.5	670.4	734.4	816.0	932.6	1002.6	1125.0	1183.3	1264.9	1439.7	1515.5
75°	477.9	495.4	542.1	582.9	600.4	647.0	763.5	827.7	944.3	1020.0	1025.9
77.5°	250.6	262.3	274.0	274.0	332.3	419.7	495.4	530.4	612.0	670.4	641.2
80°	99.1	105.0	134.1	180.7	233.1	303.1	355.6	373.1	443.0	477.9	495.4
82.5°	58.3	64.1	87.5	128.3	169.0	215.6	256.5	274.0	320.6	361.4	373.1
85°	29.2	35.0	52.5	81.6	110.8	134.1	128.3	122.4	122.4	116.6	122.4
87.5°	11.7	11.7	17.5	17.5	17.5	23.3	29.2	29.2	29.2	35.0	35.0
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°	13633.8	13633.8	13633.8	13633.8	13633.8	13633.8	13633.8	13633.8	13633.8	13633.8	13633.8
2.5°	13651.3	13418.2	13202.4	12806.1	12374.7	12252.4	11751.0	11570.4	11442.1	11290.6	11243.9
5°	13721.3	13412.3	12718.6	11920.1	11284.7	10468.7	9932.5	9355.4	8935.7	8830.8	8801.7
7.5°	13866.9	13336.5	12141.6	10935.0	9635.2	8527.7	7682.5	7227.8	6825.6	6802.3	6761.6
10°	14030.2	13109.2	11512.0	9617.7	7956.4	6930.6	6423.5	6225.3	6126.2	6102.9	6091.2
12.5°	14164.2	13062.6	10806.8	8335.3	6767.4	6149.5	5997.9	5980.4	6021.2	6032.9	6056.2
15°	14222.5	12876.0	9955.8	7187.0	6027.1	5799.8	5863.9	5933.8	5962.9	6038.7	5980.4
17.5°	14333.2	12637.0	8906.5	6277.7	5613.3	5654.0	5764.8	5846.4	5893.0	5945.4	5869.7
20°	14391.5	12421.4	7921.5	5735.6	5467.5	5543.3	5694.8	5758.9	5817.2	5840.6	5753.1
22.5°	14339.0	11978.4	7053.0	5298.5	5327.7	5426.7	5560.8	5630.7	5595.8	5502.5	5450.0
25°	14199.2	11354.7	6149.5	5018.7	5129.4	5304.3	5409.2	5356.7	5292.7	5240.2	5222.7
27.5°	14193.4	10591.1	5496.6	4762.2	4960.4	5199.4	5164.4	5117.7	5146.9	5106.1	5059.5
30°	14222.5	9850.8	4960.4	4616.5	4838.0	4954.6	4995.4	4948.7	4983.7	4907.9	4931.2
32.5°	14070.9	9128.0	4610.6	4447.5	4692.3	4686.5	4820.5	4855.4	4773.9	4616.5	4639.8
35°	14135.1	8545.1	4313.4	4371.7	4529.0	4529.0	4634.0	4593.2	4377.5	4284.2	4307.5
37.5°	14578.1	7973.9	4167.7	4266.7	4371.7	4418.3	4383.3	4208.4	4156.0	4156.0	4167.7
40°	14997.7	7484.3	4080.2	4243.4	4225.9	4255.1	3998.6	4016.1	4016.1	4021.9	3992.8
42.5°	15370.8	7152.0	4010.3	4103.6	4132.7	3981.1	3823.8	3806.3	3847.1	3841.3	3817.9
45°	15504.8	6878.1	3911.2	3946.1	3969.4	3718.8	3643.0	3608.1	3654.7	3672.2	3695.5
47.5°	14991.9	6650.8	3800.5	3730.5	3683.8	3520.7	3421.5	3357.4	3415.7	3514.8	3538.2
50°	14333.2	6353.5	3625.6	3491.5	3392.4	3322.5	3252.5	3188.4	3229.2	3299.2	3281.7
52.5°	13359.8	5887.2	3404.1	3264.2	3095.1	3112.6	3048.5	3013.6	3036.9	3036.9	3019.4
55°	11972.6	4838.0	3031.0	2931.9	2792.0	2838.7	2850.3	2803.7	2757.1	2797.8	2762.9
57.5°	8172.1	3415.7	2704.6	2704.6	2564.7	2628.8	2623.0	2512.2	2401.5	2413.2	2389.9
60°	4727.3	2722.1	2494.7	2471.4	2325.7	2378.2	2389.9	2314.1	2145.1	2156.7	2133.4
62.5°	2687.1	2325.7	2180.0	2145.1	2115.9	2162.5	2162.5	2063.4	1917.7	1929.3	1906.0
65°	2284.9	2156.7	1946.8	1941.0	1929.3	1941.0	1894.4	1789.5	1661.2	1608.7	1614.6
67.5°	2075.1	1993.5	1789.5	1737.0	1702.0	1696.2	1608.7	1509.7	1451.4	1404.7	1398.9
70°	1818.6	1754.5	1602.9	1533.0	1498.0	1416.4	1328.9	1264.9	1183.3	1160.0	1183.3
72.5°	1439.7	1433.9	1375.6	1299.8	1224.1	1160.0	1084.1	996.8	921.0	903.5	862.7
75°	996.8	1008.4	1020.0	1008.4	944.3	862.7	775.2	705.3	612.0	559.6	547.9
77.5°	652.9	670.4	687.8	664.5	623.7	547.9	489.6	402.2	332.3	291.4	285.6
80°	477.9	501.3	512.9	495.4	448.8	390.6	326.4	256.5	204.0	169.0	169.0
82.5°	367.2	390.6	402.2	373.1	326.4	279.8	233.1	180.7	139.9	110.8	105.0
85°	128.3	122.4	145.7	151.5	180.7	169.0	139.9	105.0	81.6	58.3	52.5
87.5°	35.0	35.0	40.8	40.8	35.0	29.2	29.2	29.2	23.3	17.5	17.5
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)