

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: P652637

Luminaire Tested: **GALN-SA9B-840-U-T3R**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P652637
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-8)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA9B-840-U-T3R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 44394.7 lumens
Efficiency: N/A
Efficacy: 122.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G5

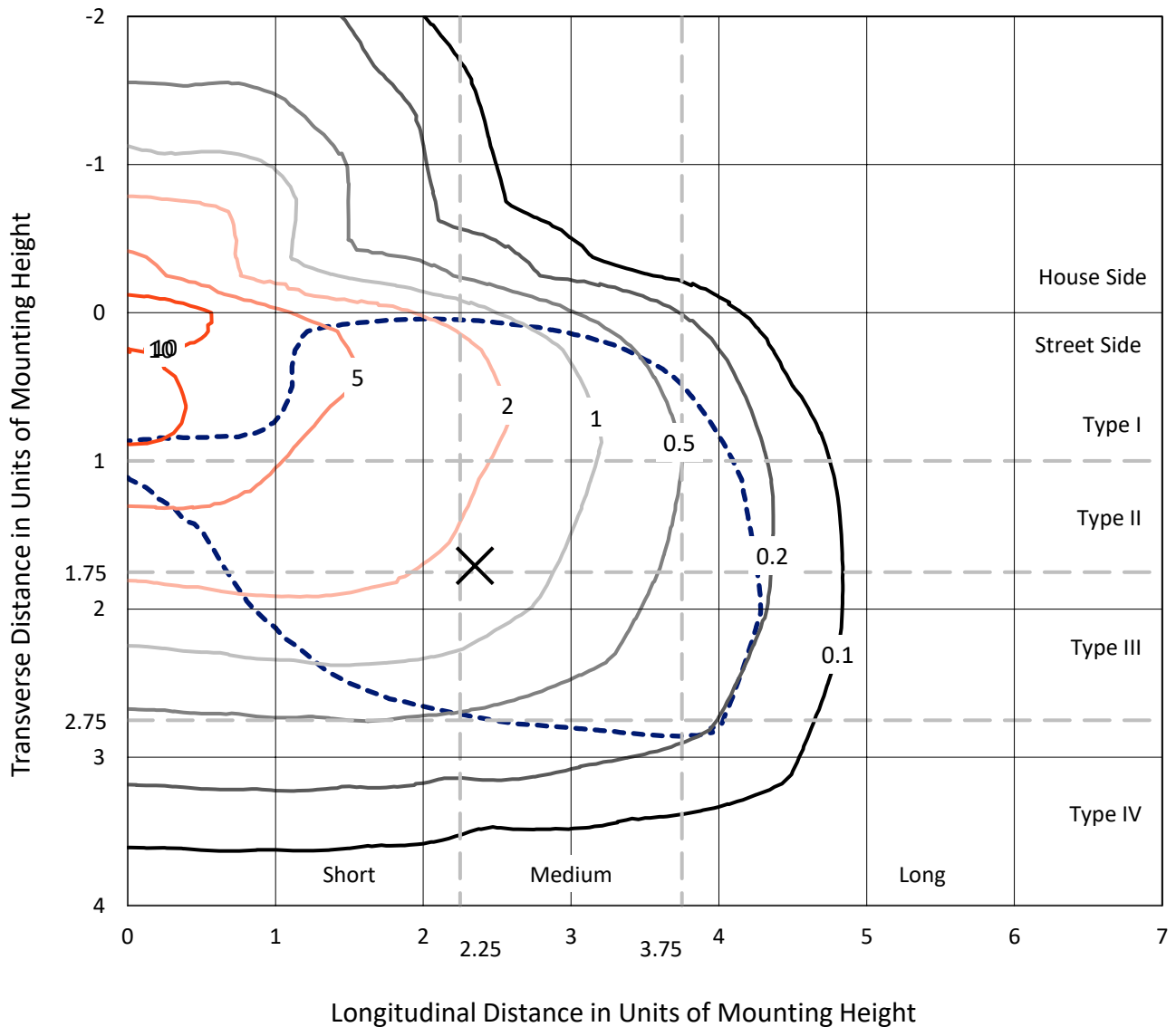
Input Watts (W): 364
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

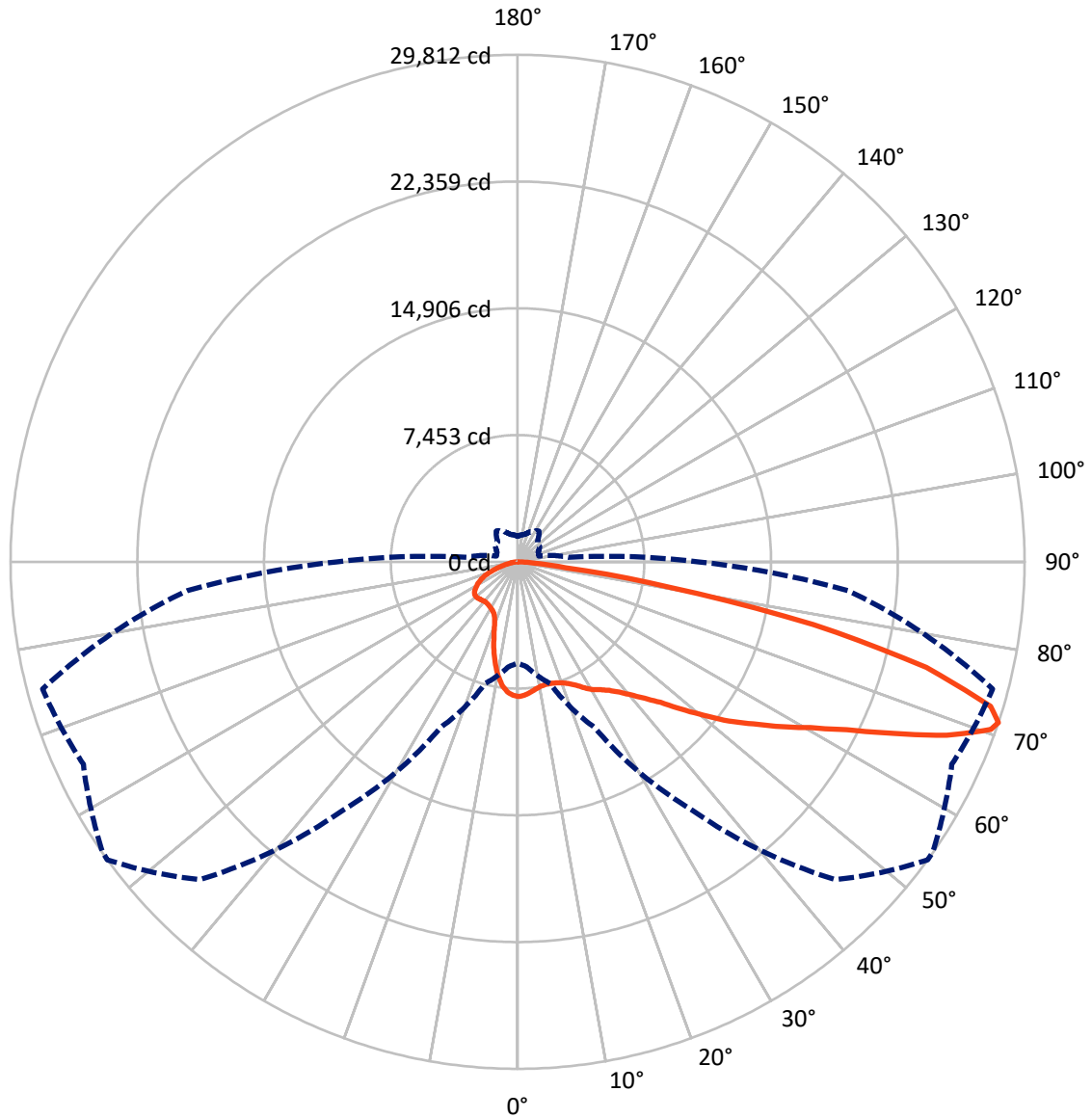
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.8 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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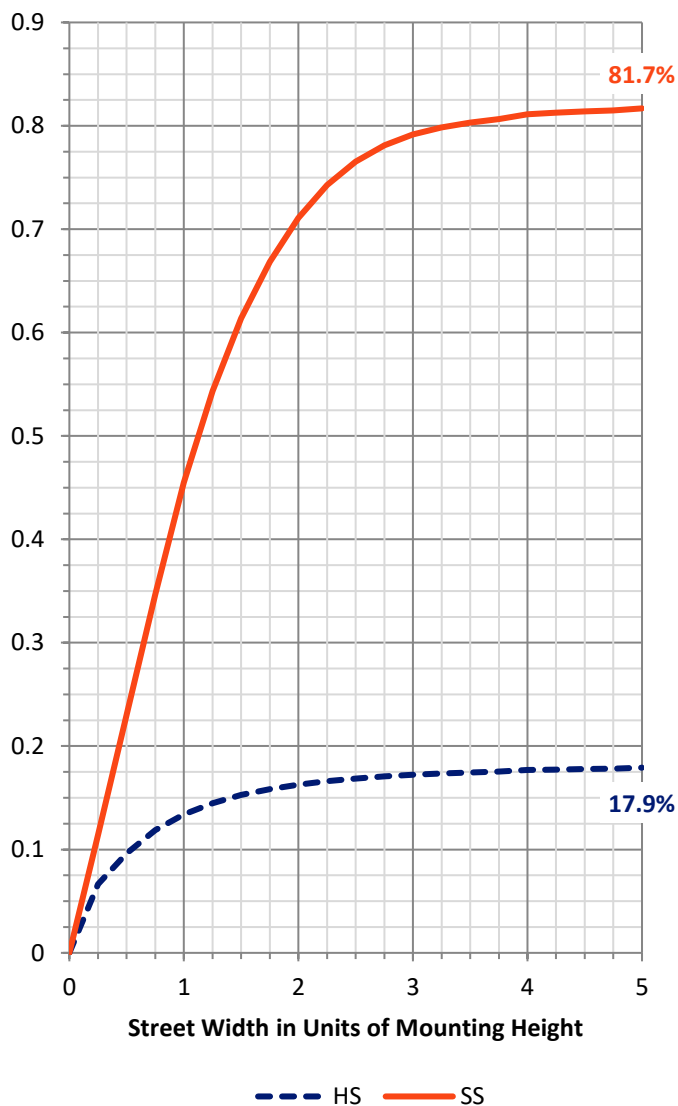
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8015.2	0.0	8015.2
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	36379.5	0.0	36379.5
	% Fixture	81.9	0.0	81.9
Total	Lumens	44394.7	0.0	44394.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	705.9	1.6
10°-20°	1863.8	4.2
20°-30°	3103.3	7.0
30°-40°	4588.8	10.3
40°-50°	6463.5	14.6
50°-60°	8654.9	19.5
60°-70°	10908.8	24.6
70°-80°	7450.7	16.8
80°-90°	655.2	1.5
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°	44394.7	100.0
0°-180°	44394.7	100.0

Coefficient of Utilization

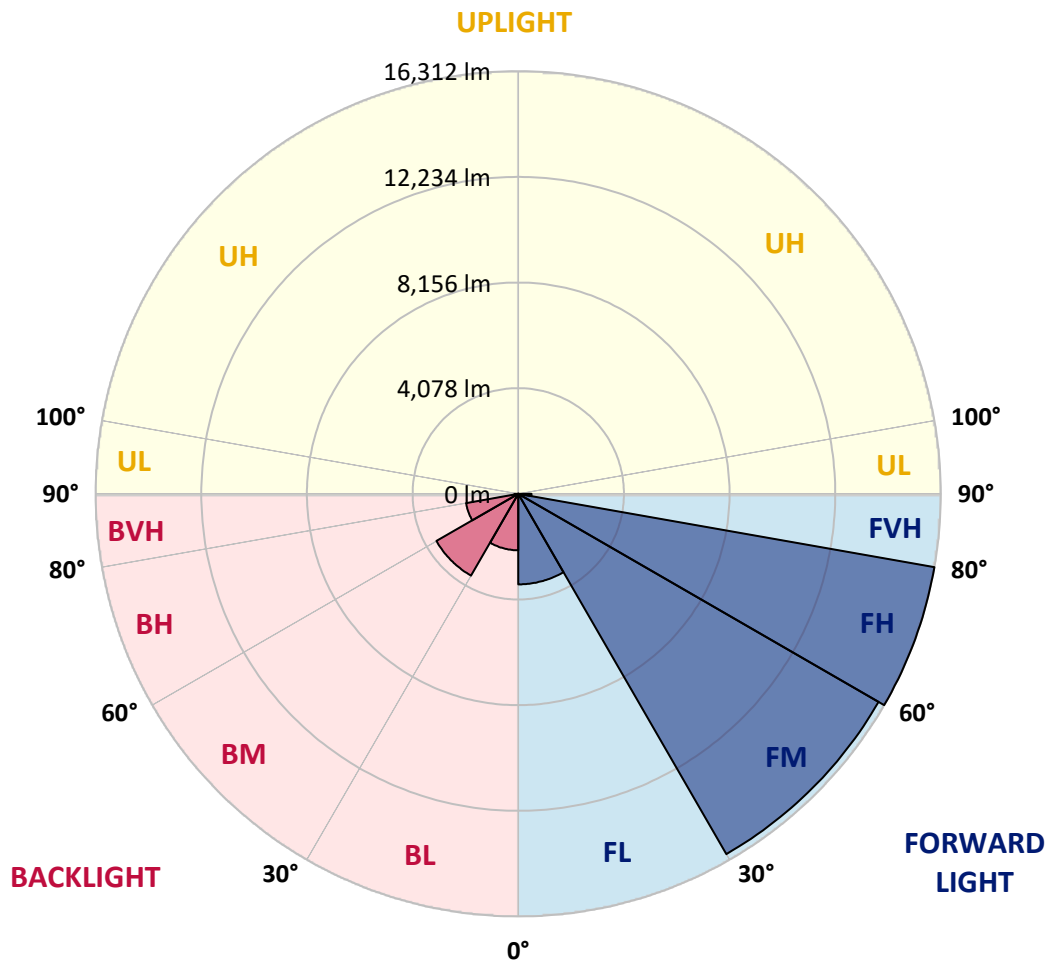


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3494.6	7.9			
FM (30°-60°)	16060.4	36.2			
FH (60°-80°)	16312.4	36.7			G5
FVH (80°-90°)	512.2	1.2			G4/750
BL (0°-30°)	2178.4	4.9	B3/2500		
BM (30°-60°)	3646.7	8.2	B3/5000		
BH (60°-80°)	2047.1	4.6	B3/2500		G3/2500
BVH (80°-90°)	143.1	0.3			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5
 Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	7920.7	7920.7	7920.7	7920.7	7920.7	7920.7	7920.7	7920.7	7920.7	7920.7	7920.7
2.5°	7652.1	7688.1	7697.7	7721.6	7772.0	7812.7	7853.5	7848.7	7906.3	7930.3	7951.8
5°	7311.6	7321.2	7357.2	7405.1	7493.8	7606.5	7716.8	7719.2	7860.7	7973.4	8028.6
7.5°	7062.2	7093.3	7117.3	7167.7	7261.2	7383.5	7558.6	7573.0	7824.7	8047.8	8165.3
10°	6899.1	6935.1	6961.5	7023.8	7117.3	7254.0	7443.4	7469.8	7798.3	8165.3	8371.5
12.5°	6750.5	6786.4	6810.4	6891.9	7014.2	7182.1	7395.5	7426.7	7807.9	8301.9	8597.0
15°	6841.5	6870.3	6860.7	6884.8	6966.3	7158.1	7414.7	7445.9	7843.9	8433.9	8819.9
17.5°	7246.8	7270.8	7191.6	7100.6	7062.2	7203.7	7474.6	7508.2	7915.9	8570.5	9047.7
20°	7843.9	7908.7	7736.0	7532.2	7347.6	7366.7	7599.4	7635.3	8016.6	8707.2	9280.4
22.5°	8620.9	8668.9	8457.9	8122.1	7781.6	7606.5	7786.4	7807.9	8167.7	8884.7	9534.6
25°	9534.6	9563.3	9270.8	8839.1	8347.5	8016.6	8043.0	8081.3	8417.1	9086.1	9760.0
27.5°	10421.8	10512.9	10174.8	9647.3	8999.8	8448.3	8395.5	8419.5	8688.0	9198.9	9915.8
30°	11474.5	11467.4	11110.0	10498.5	9668.8	8918.2	8728.8	8724.0	8834.3	9253.9	10028.5
32.5°	12313.8	12412.2	12062.0	11395.4	10433.8	9405.1	8959.0	8949.4	8947.1	9349.9	10196.4
35°	13268.3	13282.7	12961.3	12289.9	11261.2	10016.6	9280.4	9232.4	9177.2	9556.1	10424.2
37.5°	14122.0	14189.1	13894.2	13141.1	12074.1	10652.0	9721.6	9690.4	9522.6	9913.5	10788.7
40°	14788.6	14838.9	14661.5	13944.5	12875.0	11337.9	10282.7	10225.2	10021.4	10498.5	11275.5
42.5°	15006.8	15109.9	15179.5	14827.0	13795.8	12150.8	10973.4	10901.4	10745.5	11385.8	11836.7
45°	15023.6	15186.7	15553.6	15570.4	14721.5	13124.4	11779.1	11728.8	11716.7	12522.5	12625.6
47.5°	14896.5	15062.0	15678.3	16011.6	15546.4	14107.6	12942.1	12863.0	12870.2	13927.7	13510.5
50°	14589.6	14786.2	15534.4	16294.5	16191.4	15129.2	14169.9	14143.5	14292.2	15532.0	14428.9
52.5°	14011.6	14249.1	15385.8	16472.0	16671.1	16009.2	15565.6	15491.2	15867.7	17273.0	15433.7
55°	12412.2	12769.5	14841.4	16570.3	17126.7	16850.9	16822.1	16956.4	17455.2	19172.2	16539.2
57.5°	11577.6	11846.2	13659.2	16587.1	17702.2	17829.3	18289.7	18323.3	19196.2	21188.9	17788.6
60°	11122.1	11359.5	13011.7	16476.8	18505.5	19040.3	19790.9	19910.8	20896.4	23373.6	19083.5
62.5°	10723.9	10927.8	12623.2	16095.6	19412.0	20836.4	21735.7	21793.3	22826.8	25786.0	20361.6
65°	9786.3	10018.9	11841.4	15714.3	20193.8	23081.0	24316.0	24248.8	24881.9	27867.5	21162.6
67.5°	8522.6	8817.5	10381.1	14397.8	20579.9	25534.2	27222.3	27138.4	26910.7	29231.9	21392.8
70°	6908.7	7067.0	8513.0	12122.0	19037.9	26821.9	29517.2	29428.5	28167.2	29411.8	20304.1
71°	5944.7	6191.7	7412.3	10767.2	17754.9	26428.6	29812.3	29788.2	28169.5	28915.3	19484.0
72.5°	4640.2	4791.3	5870.3	8342.7	15090.7	24193.6	29083.2	29174.4	27558.1	27536.5	17793.4
75°	2935.2	3002.3	3683.3	4911.2	8280.4	17133.9	24826.7	25073.7	24469.4	22539.1	13232.3
77.5°	1705.0	1791.3	2206.2	2894.4	3577.9	9299.5	17764.5	18033.1	17002.0	12409.8	5417.1
80°	992.8	1088.7	1453.2	1681.0	1642.6	3450.8	9045.4	9503.4	7361.9	3134.2	1520.4
82.5°	551.5	616.3	1021.6	1023.9	875.3	1127.1	2846.4	2978.3	2100.6	1263.8	621.1
85°	400.5	453.2	659.4	597.1	419.7	484.4	990.4	1038.4	848.9	532.4	201.4
87.5°	141.5	201.4	362.1	287.8	115.1	100.8	285.4	232.6	215.8	148.7	45.6
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°	7920.7	7920.7	7920.7	7920.7	7920.7	7920.7	7920.7	7920.7	7920.7	7920.7	7920.7
2.5°	7963.8	7968.6	7944.7	7901.4	7858.3	7803.1	7740.8	7692.9	7671.3	7668.9	7666.5
5°	8050.1	8062.2	7971.0	7836.8	7688.1	7505.8	7349.9	7172.5	7126.9	7055.0	7076.6
7.5°	8189.2	8182.1	8002.2	7716.8	7369.1	6983.1	6656.9	6467.5	6270.8	6215.7	6218.1
10°	8388.3	8342.7	8002.2	7472.2	6891.9	6318.8	5863.2	5575.4	5419.6	5290.1	5242.1
12.5°	8599.3	8484.2	7925.5	7129.3	6278.1	5575.4	5086.2	4697.7	4597.0	4491.5	4493.9
15°	8800.7	8608.9	7774.4	6647.3	5616.2	4781.7	4306.8	4074.2	4043.1	4055.0	4052.7
17.5°	8983.0	8697.6	7544.2	6110.2	4844.0	4100.6	3848.8	3865.7	3949.5	4009.5	4016.7
20°	9167.7	8750.4	7201.2	5390.7	4115.0	3688.1	3697.8	3829.7	3956.7	4038.3	4050.3
22.5°	9342.7	8774.4	6798.4	4695.3	3587.5	3513.1	3654.6	3796.1	3920.7	3999.9	4011.9
25°	9457.8	8719.2	6227.7	3968.8	3328.4	3450.8	3599.4	3719.3	3824.9	3906.4	3925.5
27.5°	9489.0	8541.8	5520.2	3381.2	3208.6	3390.8	3527.5	3616.2	3697.8	3774.5	3788.9
30°	9472.2	8280.4	4743.3	3035.9	3139.0	3321.3	3426.7	3491.5	3589.8	3649.8	3661.8
32.5°	9445.8	7975.8	3932.8	2851.2	3081.4	3256.5	3318.8	3376.4	3374.0	3350.0	3366.9
35°	9455.4	7611.3	3275.7	2740.9	3031.1	3208.6	3261.3	3189.4	2983.1	2973.5	2963.9
37.5°	9505.7	7251.6	2798.5	2664.2	3004.7	3201.4	3230.1	2899.2	2716.9	2633.0	2611.5
40°	9635.3	6831.9	2484.3	2606.7	3002.3	3256.5	3088.7	2752.9	2402.8	2239.8	2227.7
42.5°	9807.9	6419.5	2292.5	2570.7	3031.1	3340.5	3031.1	2546.7	2165.4	2069.5	2055.1
45°	10064.5	5947.1	2187.0	2553.9	3074.3	3371.7	3012.0	2395.6	2069.5	1992.7	1992.7
47.5°	10354.6	5496.3	2129.4	2541.9	3129.4	3350.0	2841.7	2347.7	2024.0	2033.5	2079.1
50°	10642.4	5105.4	2086.3	2515.5	3177.4	3338.0	2772.1	2345.3	2035.9	2158.3	2239.8
52.5°	10975.7	4829.6	2033.5	2472.4	3177.4	3261.3	2750.6	2393.2	2069.5	2105.4	2141.4
55°	11378.6	4743.3	1966.3	2378.9	3119.9	3069.5	2738.5	2462.8	2093.5	2009.6	2024.0
57.5°	11911.0	4882.3	1901.7	2261.4	2987.9	2870.4	2733.8	2482.0	2038.3	1968.8	1954.4
60°	12529.6	5158.2	1882.4	2141.4	2808.1	2700.2	2705.0	2426.8	1961.5	1889.6	1901.7
62.5°	12963.7	5323.6	1870.5	2050.3	2611.5	2513.2	2635.4	2359.7	1928.0	1865.7	1877.6
65°	12963.7	5122.2	1760.1	1911.3	2357.2	2287.7	2551.5	2275.7	1884.8	1812.9	1800.9
67.5°	12472.1	4534.7	1592.3	1702.6	2076.7	2031.1	2434.0	2175.0	1820.1	1764.9	1736.2
70°	11191.6	3438.8	1381.3	1458.0	1721.8	1762.6	2282.9	2038.3	1712.2	1645.1	1601.9
71°	10628.1	2995.1	1292.5	1333.3	1585.1	1645.1	2211.0	1980.8	1664.3	1568.3	1491.6
72.5°	9541.7	2522.7	1158.2	1175.0	1354.9	1462.8	2059.9	1870.5	1573.1	1436.4	1350.1
75°	7249.3	1841.7	932.8	923.2	1002.4	1160.7	1743.4	1666.6	1378.9	1194.2	1143.8
77.5°	3131.8	1002.4	697.9	705.0	681.0	880.1	1371.7	1431.6	1182.2	971.2	925.6
80°	949.7	577.9	477.2	486.8	455.7	589.9	966.4	1122.3	949.7	755.4	693.1
82.5°	486.8	345.3	326.1	321.3	290.1	333.3	585.1	767.3	678.6	472.4	417.2
85°	211.0	184.7	160.6	155.8	136.7	119.9	208.7	383.7	359.7	263.8	251.8
87.5°	52.7	47.9	31.2	28.8	16.8	2.4	0.0	0.0	0.0	0.0	0.0
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)