

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: P533576

Luminaire Tested: **GALN-SA9A-730-U-T3R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533576
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-12)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA9A-730-U-T3R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32959 lumens
Efficiency: N/A
Efficacy: 120.3 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

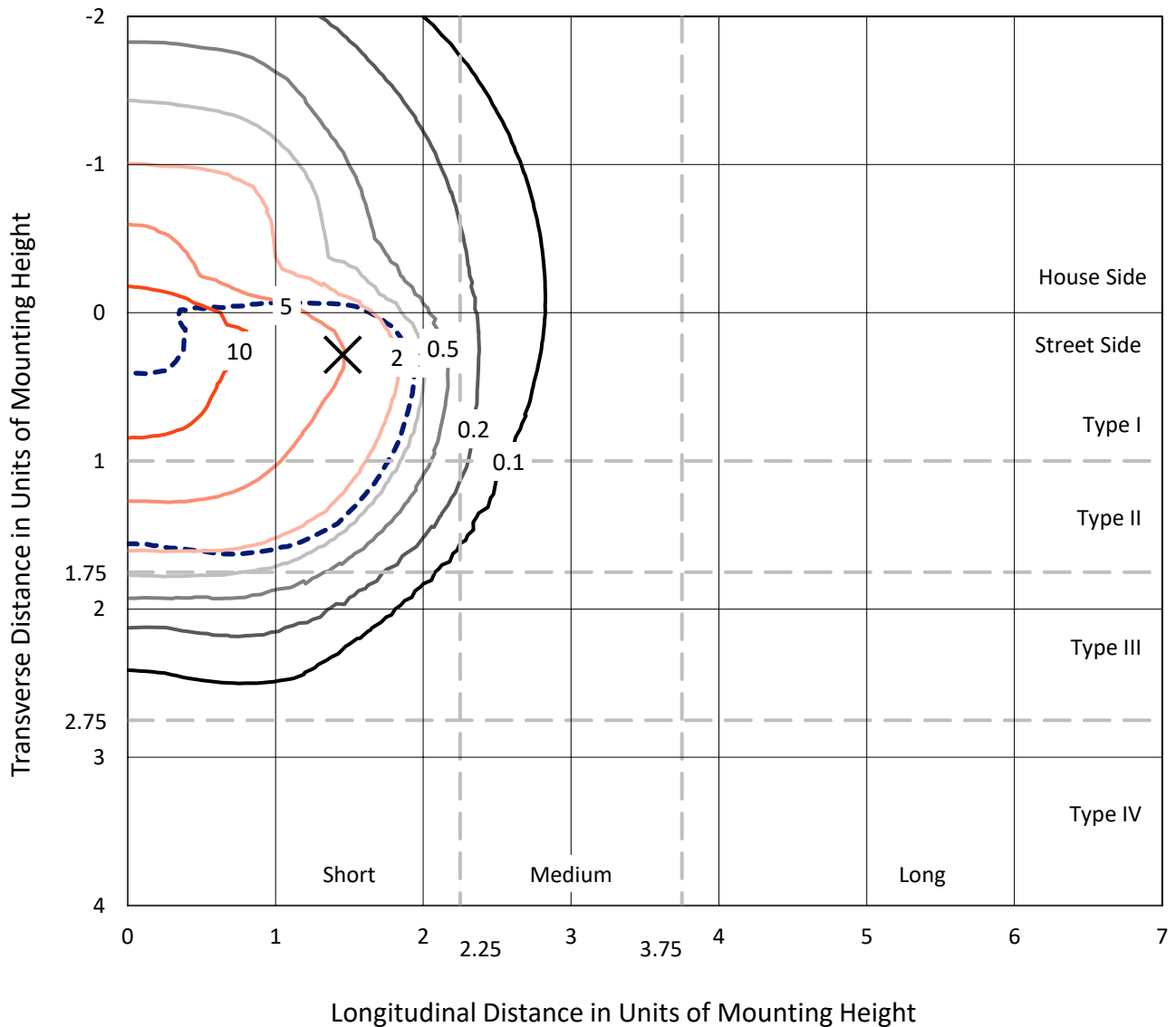
Input Watts (W): 274
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

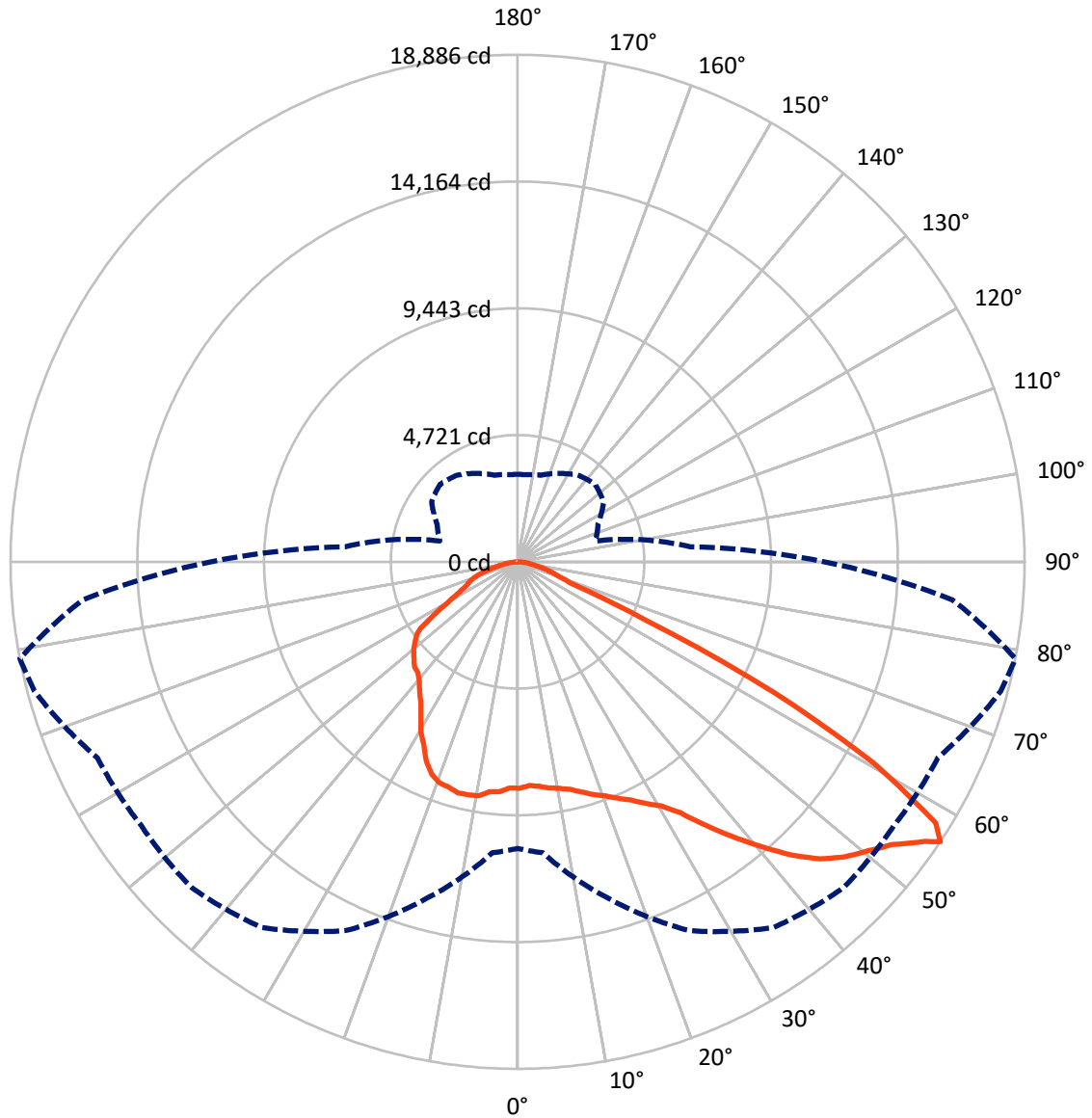
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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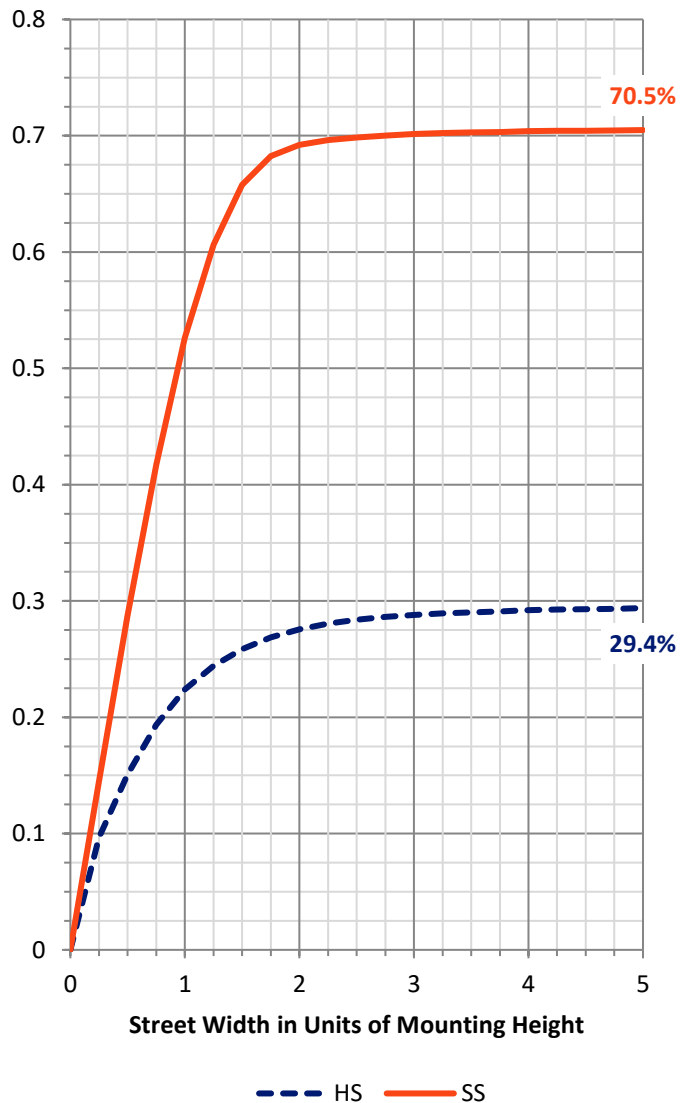
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9733.5	0.0	9733.5
	% Fixture	29.5	0.0	29.5
Street Side	Lumens	23225.5	0.0	23225.5
	% Fixture	70.5	0.0	70.5
Total	Lumens	32959.0	0.0	32959.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	766.7	2.3
10°-20°	2098.3	6.4
20°-30°	3589.8	10.9
30°-40°	5501.7	16.7
40°-50°	7435.6	22.6
50°-60°	8540.0	25.9
60°-70°	3892.8	11.8
70°-80°	959.8	2.9
80°-90°	174.4	0.5
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°	32959.0	100.0
0°-180°	32959.0	100.0

Coefficient of Utilization



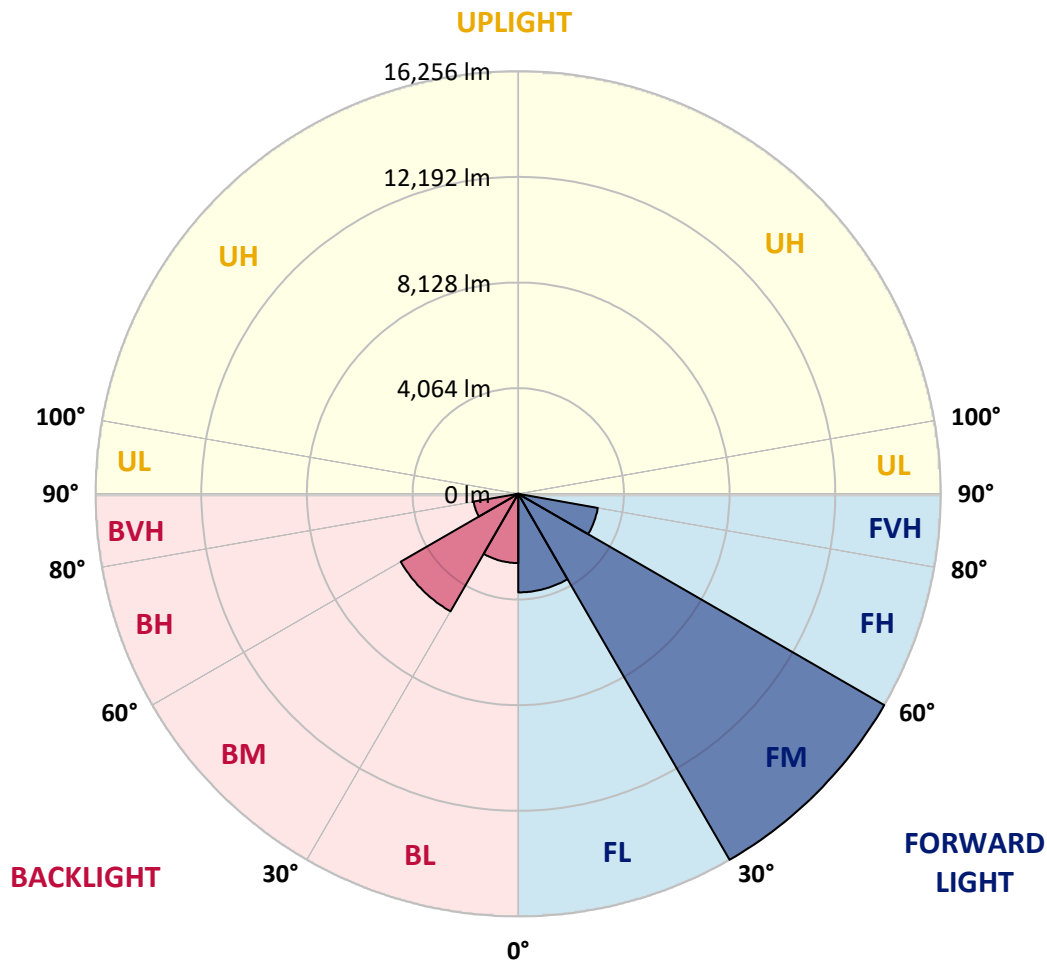
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3792.2	11.5			
FM (30°-60°)	16256.4	49.3			
FH (60°-80°)	3107.3	9.4			G2/5000
FVH (80°-90°)	69.6	0.2			G1/100
BL (0°-30°)	2662.5	8.1	B4/5000		
BM (30°-60°)	5220.9	15.8	B4/8500		
BH (60°-80°)	1745.3	5.3	B3/2500		G3/2500
BVH (80°-90°)	104.8	0.3			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°	75°	79°	85°
0°	8432.9	8432.9	8432.9	8432.9	8432.9	8432.9	8432.9	8432.9	8432.9	8432.9	8432.9
2.5°	8022.3	8001.8	8051.1	8088.0	8133.2	8190.7	8219.4	8235.8	8379.5	8342.6	8453.4
5°	7849.9	7796.5	7833.5	7862.2	7940.2	8010.0	8088.0	8211.2	8342.6	8400.1	8535.5
7.5°	7698.0	7669.3	7661.1	7681.6	7788.3	7878.6	8014.1	8194.8	8408.3	8502.7	8580.7
10°	7447.6	7406.5	7468.1	7603.6	7632.3	7821.2	7977.2	8235.8	8420.6	8584.8	8814.7
12.5°	7336.7	7295.7	7308.0	7386.0	7587.1	7767.8	7952.5	8244.0	8634.1	8699.8	9007.7
15°	7513.2	7472.2	7484.5	7464.0	7656.9	7751.4	8042.9	8408.3	8781.9	8892.7	9221.2
17.5°	7915.6	7919.7	7866.3	7821.2	7776.0	7977.2	8178.4	8506.8	8839.4	9118.5	9364.9
20°	8683.3	8547.9	8441.1	8186.6	8116.8	8203.0	8457.5	8773.7	9073.4	9303.3	9582.5
22.5°	9274.6	9286.9	9135.0	8716.2	8564.3	8601.2	8818.8	9077.5	9405.9	9570.2	9890.4
25°	10132.6	10046.4	9882.2	9549.6	9208.9	9237.6	9397.7	9631.7	9722.1	9837.0	10186.0
27.5°	10916.8	10941.4	10617.1	10305.1	9882.2	9800.1	10087.5	10128.5	9976.6	10194.2	10313.3
30°	11713.3	11692.7	11479.3	11113.9	10699.2	10715.6	10842.9	10641.7	10432.3	10551.4	10633.5
32.5°	12538.5	12304.5	12296.3	11967.8	11651.7	11499.8	11343.8	11442.3	11118.0	11142.6	11064.6
35°	13199.5	13232.3	13043.5	12809.5	12653.5	12386.6	11959.6	12136.2	12074.6	12045.8	11709.2
37.5°	13679.9	13552.6	13647.0	13569.0	13421.2	13088.7	12645.2	12813.6	12842.3	12981.9	12591.9
40°	14074.0	14020.6	14271.1	14312.1	14209.5	13491.0	12694.5	13195.4	13626.5	13930.3	13466.4
42.5°	14262.9	14377.8	14640.6	14956.7	14726.8	13959.0	12949.1	13486.9	14447.6	14928.0	14295.7
45°	14517.4	14369.6	14759.6	15338.5	15342.6	14353.2	13195.4	13881.0	15088.1	15786.0	14862.3
47.5°	14258.7	14332.7	14735.0	15469.9	15658.8	14767.8	13860.5	14439.4	15794.2	16414.2	15387.8
50°	13679.9	13827.7	14562.6	15326.2	15896.9	15207.1	14624.1	15042.9	16447.0	16919.2	15474.0
52.5°	13076.3	13158.4	14308.0	15437.1	16003.6	15773.7	15646.4	15876.4	17243.5	17489.9	15580.8
55°	11434.1	11824.1	13466.4	15387.8	16525.0	16796.0	16697.5	17034.1	18146.8	18393.1	16163.7
56°	10674.6	10879.8	12961.4	15157.9	16627.7	17169.6	17120.4	17272.3	18627.1	18885.8	16254.1
57.5°	9270.4	9286.9	11052.3	14139.7	16241.8	17280.5	17231.2	17350.3	18532.7	18356.1	15461.7
60°	5801.2	6055.8	7521.5	10875.7	13811.2	16032.4	16311.5	15354.9	15625.9	15252.3	12029.4
62.5°	3005.3	2968.3	3941.4	6359.6	9167.8	11479.3	11737.9	11692.7	11274.0	10727.9	7858.1
65°	1498.5	1506.8	2061.0	3149.0	4696.8	6010.6	6733.2	6811.2	5698.6	5242.9	3727.9
67.5°	1088.0	1129.0	1482.1	1925.5	2212.9	2475.7	3034.0	2976.6	2254.0	2143.1	1987.1
70°	845.8	882.7	1202.9	1469.8	1334.3	1334.3	1453.4	1502.6	1605.3	1650.5	1703.8
72.5°	615.8	644.6	919.7	1014.1	874.5	940.2	1088.0	1202.9	1309.7	1326.1	1387.7
75°	422.9	447.5	603.5	558.4	525.5	648.7	796.5	903.2	981.2	1022.3	1059.2
77.5°	275.1	283.3	344.9	291.5	336.7	418.8	517.3	607.6	685.6	718.5	726.7
80°	123.2	135.5	147.8	184.8	234.0	299.7	369.5	443.4	492.7	505.0	529.6
82.5°	69.8	69.8	90.3	131.4	172.4	217.6	266.9	320.2	377.7	390.0	385.9
85°	37.0	37.0	53.4	78.0	106.7	127.3	123.2	127.3	135.5	156.0	151.9
87.5°	12.3	12.3	16.4	16.4	20.5	24.6	20.5	28.7	37.0	37.0	37.0
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°	8432.9	8432.9	8432.9	8432.9	8432.9	8432.9	8432.9	8432.9	8432.9	8432.9	8432.9
2.5°	8420.6	8457.5	8408.3	8515.0	8515.0	8494.5	8391.8	8424.7	8449.3	8449.3	8469.9
5°	8580.7	8568.4	8601.2	8474.0	8396.0	8367.2	8198.9	8116.8	8047.0	8042.9	7981.3
7.5°	8671.0	8638.2	8625.9	8531.4	8186.6	7977.2	7615.9	7406.5	7361.3	7201.2	7262.8
10°	8814.7	8876.3	8814.7	8301.5	7821.2	7340.8	6987.7	6663.4	6536.1	6433.5	6371.9
12.5°	9110.3	9081.6	8724.4	8030.6	7357.2	6786.6	6261.0	5920.3	5793.0	5702.7	5694.5
15°	9360.8	9217.1	8671.0	7603.6	6634.7	6027.0	5595.9	5353.7	5296.2	5304.4	5341.4
17.5°	9447.0	9348.5	8391.8	7160.2	6096.8	5382.4	5181.3	5144.3	5197.7	5259.3	5275.7
20°	9582.5	9426.5	8276.9	6556.6	5431.7	4980.1	4967.8	5099.2	5197.7	5288.0	5300.3
22.5°	9865.8	9471.6	7903.3	5986.0	4976.0	4861.0	4980.1	5090.9	5242.9	5316.8	5251.1
25°	9947.9	9373.1	7377.8	5300.3	4688.6	4787.1	4914.4	5066.3	5173.1	5214.1	5242.9
27.5°	10017.7	9221.2	6667.5	4844.6	4598.3	4783.0	4914.4	5041.7	5099.2	5136.1	5169.0
30°	10214.7	9176.0	6051.7	4540.8	4540.8	4700.9	4869.2	4902.1	4980.1	5025.3	5082.7
32.5°	10313.3	8864.0	5419.4	4347.8	4483.3	4742.0	4754.3	4815.9	4820.0	4856.9	4795.3
35°	10571.9	8642.3	4832.3	4208.2	4507.9	4700.9	4762.5	4725.5	4524.4	4425.8	4446.4
37.5°	10760.8	8531.4	4409.4	4191.8	4512.1	4746.1	4778.9	4499.7	4290.4	4126.1	4167.2
40°	11269.9	8256.4	4089.2	4163.1	4549.0	4795.3	4705.0	4401.2	4023.5	3855.2	3826.4
42.5°	11659.9	8059.3	3888.0	4130.2	4577.7	4865.1	4668.1	4204.1	3818.2	3662.2	3703.3
45°	12111.5	8014.1	3781.3	4138.4	4627.0	4902.1	4622.9	4052.2	3641.7	3580.1	3567.8
47.5°	12271.6	7689.8	3666.3	4068.6	4614.7	4889.8	4471.0	3937.3	3576.0	3584.2	3617.0
50°	12004.8	7357.2	3580.1	3925.0	4532.6	4778.9	4232.9	3785.4	3539.0	3641.7	3699.1
52.5°	11664.0	7016.5	3403.5	3732.0	4364.3	4606.5	4122.0	3777.2	3502.1	3469.2	3481.5
55°	11766.7	6737.3	3157.2	3469.2	4093.3	4286.2	3998.9	3699.1	3411.8	3288.6	3329.6
56°	11434.1	6449.9	2997.1	3305.0	3908.5	4081.0	3937.3	3629.4	3337.9	3255.7	3255.7
57.5°	10493.9	5485.1	2787.7	3042.2	3518.5	3723.8	3818.2	3588.3	3255.7	3112.0	3116.2
60°	7739.1	3900.3	2500.3	2681.0	2915.0	3079.2	3518.5	3473.3	3050.5	2951.9	2915.0
62.5°	4770.7	2849.3	2295.0	2364.8	2483.9	2619.4	3071.0	3144.9	2832.9	2726.1	2701.5
65°	2672.7	2180.1	2139.0	2167.8	2225.2	2295.0	2549.6	2713.8	2500.3	2336.1	2327.9
67.5°	1954.3	1950.2	1983.0	2007.6	2032.3	2032.3	2093.9	2159.5	2130.8	1999.4	1987.1
70°	1736.7	1749.0	1773.6	1777.7	1785.9	1757.2	1707.9	1687.4	1720.2	1638.1	1621.7
72.5°	1432.9	1473.9	1502.6	1506.8	1461.6	1424.6	1359.0	1289.2	1264.5	1248.1	1244.0
75°	1100.3	1129.0	1141.4	1137.3	1120.8	1067.5	989.4	919.7	874.5	825.2	849.9
77.5°	743.1	784.2	804.7	804.7	780.1	698.0	661.0	607.6	562.5	509.1	517.3
80°	521.4	550.2	583.0	578.9	537.8	496.8	443.4	394.1	357.2	316.1	312.0
82.5°	390.0	406.5	422.9	414.7	385.9	344.9	307.9	262.8	221.7	193.0	193.0
85°	139.6	151.9	184.8	193.0	209.4	209.4	176.5	147.8	119.1	98.5	98.5
87.5°	41.1	41.1	45.2	45.2	41.1	45.2	37.0	41.1	45.2	28.7	28.7
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)