

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: P533834

Luminaire Tested: **GALN-SA9B-735-U-T3-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533834
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-16)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA9B-735-U-T3-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 40970 lumens
Efficiency: N/A
Efficacy: 112.6 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

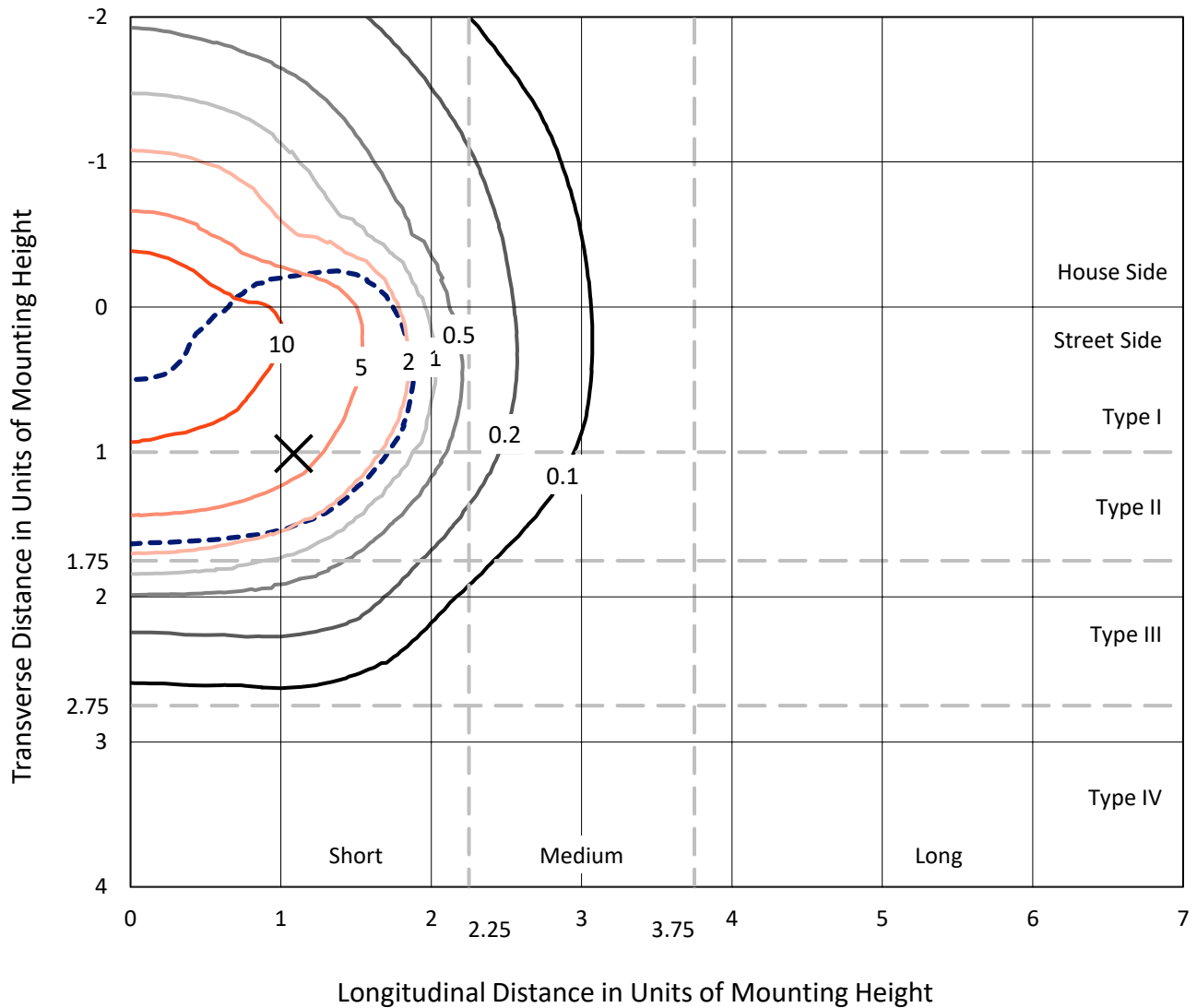
Input Watts (W): 364
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

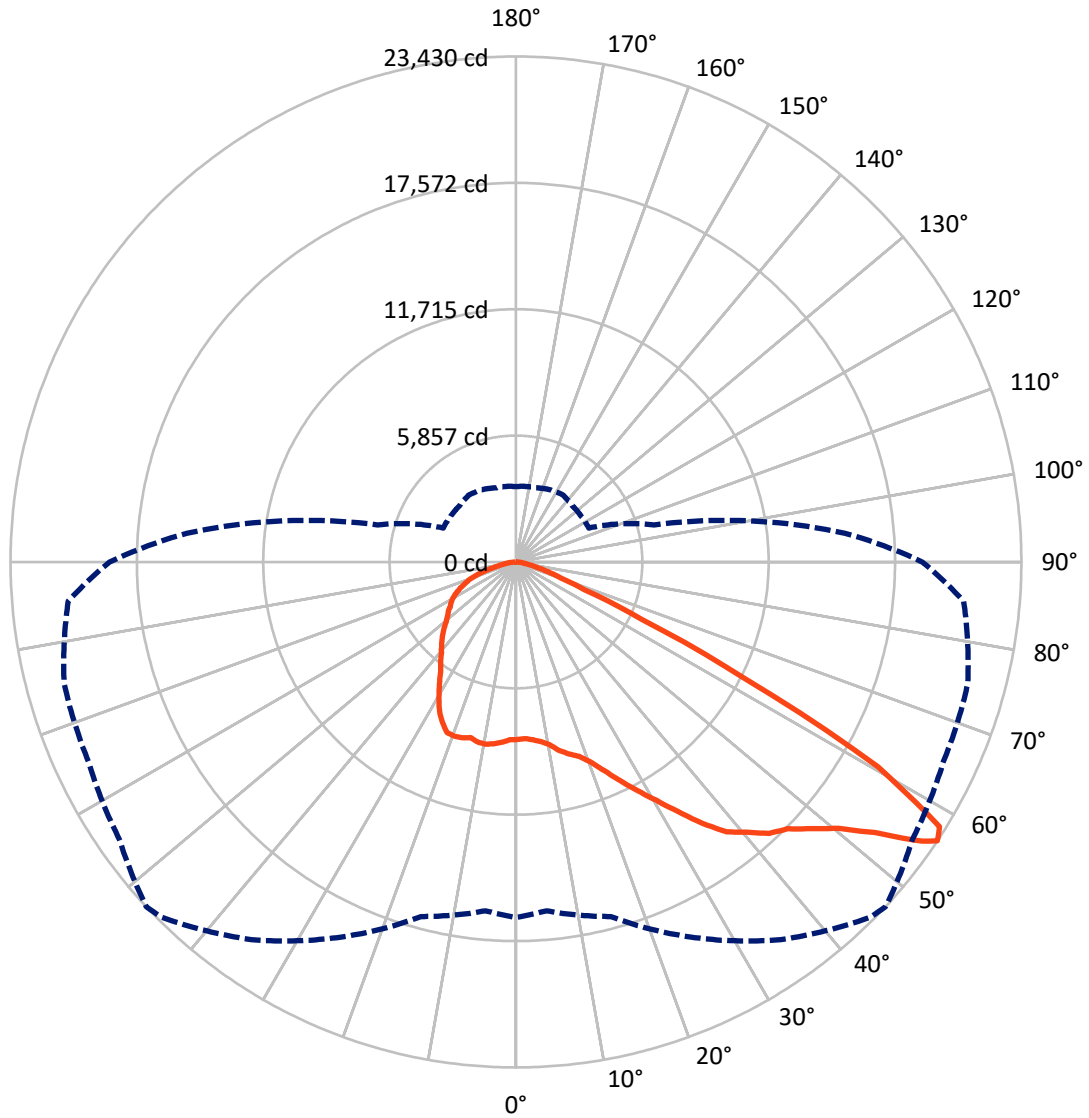
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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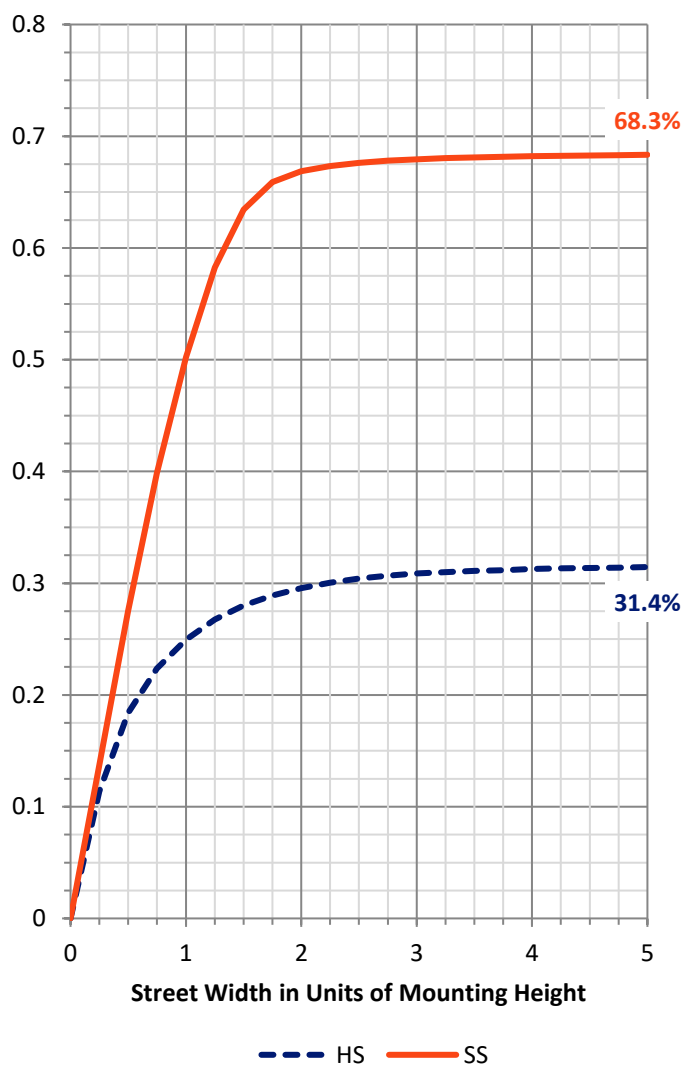
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12982.9	0.0	12982.9
	% Fixture	31.7	0.0	31.7
Street Side	Lumens	27987.1	0.0	27987.1
	% Fixture	68.3	0.0	68.3
Total	Lumens	40970.0	0.0	40970.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	801.9	2.0
10°-20°	2529.5	6.2
20°-30°	4471.5	10.9
30°-40°	6716.1	16.4
40°-50°	9217.2	22.5
50°-60°	10981.0	26.8
60°-70°	4699.2	11.5
70°-80°	1329.9	3.2
80°-90°	223.8	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°	40970.0	100.0
0°-180°	40970.0	100.0

Coefficient of Utilization



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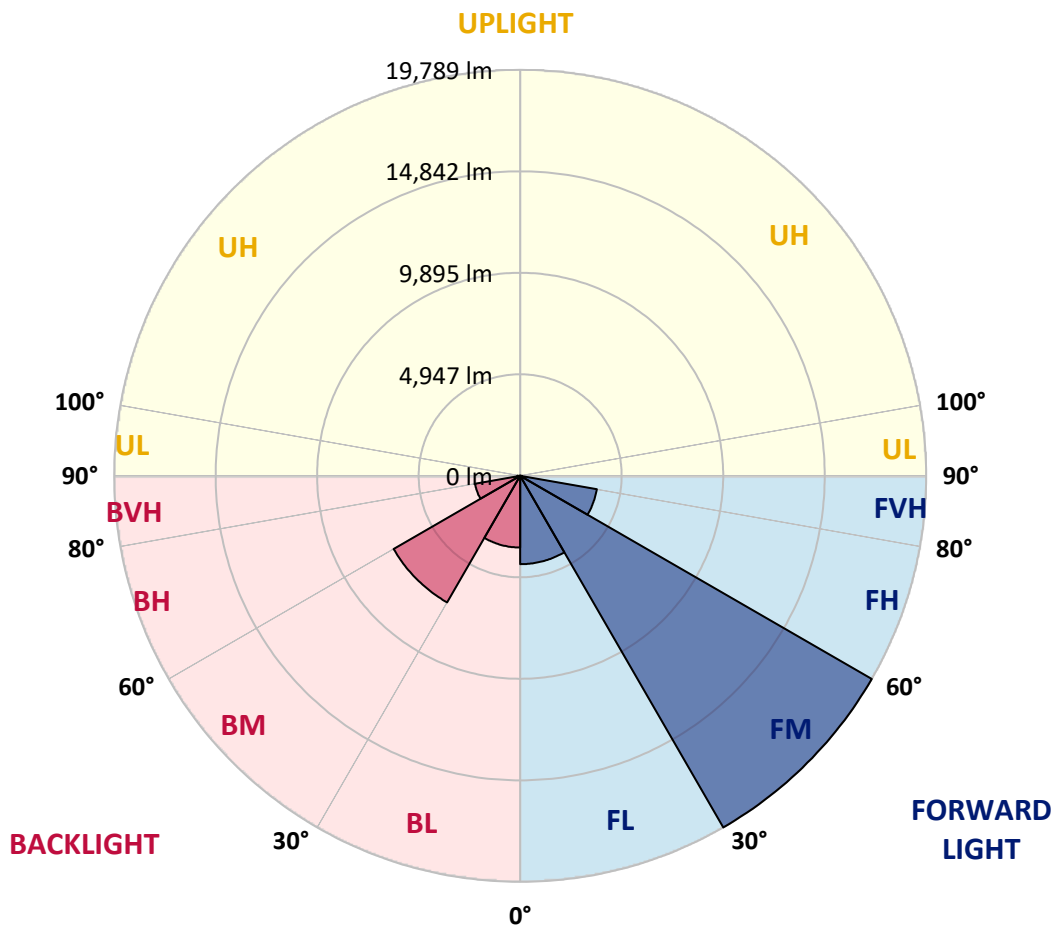
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4307.3	10.5			
FM (30°-60°)	19789.5	48.3			
FH (60°-80°)	3795.3	9.3			G2/5000
FVH (80°-90°)	95.0	0.2			G1/100
BL (0°-30°)	3495.5	8.5	B4/5000		
BM (30°-60°)	7124.8	17.4	B4/8500		
BH (60°-80°)	2233.8	5.5	B3/2500		G3/2500
BVH (80°-90°)	128.8	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°	47°	55°	65°	75°	85°
0°	8229.6	8229.6	8229.6	8229.6	8229.6	8229.6	8229.6	8229.6	8229.6	8229.6	8229.6
2.5°	8198.3	8182.6	8172.2	8255.8	8224.4	8229.6	8198.3	8229.6	8250.5	8203.5	8271.4
5°	8182.6	8229.6	8187.8	8214.0	8281.9	8261.0	8281.9	8344.6	8328.9	8313.2	8292.3
7.5°	8328.9	8334.1	8365.5	8375.9	8396.8	8375.9	8407.3	8464.8	8449.1	8360.3	8370.7
10°	8537.9	8548.4	8553.6	8611.1	8647.6	8652.9	8616.3	8564.0	8558.8	8679.0	8595.4
12.5°	8778.3	8752.1	8814.8	8835.7	8877.5	8924.6	8971.6	8861.9	8929.8	8935.0	8835.7
15°	9128.4	9154.5	9081.3	9081.3	9097.0	9102.2	9232.9	9180.6	9170.2	9112.7	9154.5
17.5°	9650.9	9473.2	9468.0	9394.8	9384.4	9426.2	9473.2	9515.0	9656.1	9541.1	9316.5
20°	10032.3	10074.1	9922.6	9833.8	9849.4	9943.5	9896.5	10084.6	10183.8	9995.7	9776.3
22.5°	10706.4	10565.3	10601.9	10403.3	10419.0	10518.2	10513.0	10706.4	10763.8	10466.0	10147.3
25°	11160.9	11124.4	11155.7	10999.0	11019.9	11098.2	11223.6	11542.4	11448.3	11119.1	10382.4
27.5°	11824.5	11751.4	11725.3	11667.8	11646.9	11855.9	12002.2	12341.8	12273.9	11793.2	10800.4
30°	12503.8	12456.8	12482.9	12247.8	12331.4	12775.5	12817.3	13282.4	13251.0	12404.5	11265.4
32.5°	12974.1	13000.2	13047.2	12916.6	13287.6	13642.9	13784.0	14311.7	14337.8	13454.8	12164.2
35°	13731.7	13642.9	13669.0	13820.6	13993.0	14640.9	14870.8	15220.9	15440.4	14557.3	13026.3
37.5°	14207.2	14301.3	14191.5	14431.9	14881.3	15659.8	15868.8	16229.3	16459.3	15644.1	14202.0
40°	14949.2	14797.7	14876.0	15048.5	15508.3	16522.0	16464.5	16835.5	16908.6	16569.0	15299.3
42.5°	15748.6	15675.5	15565.8	15957.6	16344.3	17081.1	17196.0	17023.6	17394.6	17472.9	16866.8
45°	16704.8	16793.7	16809.3	16819.8	17159.4	17802.1	17645.4	17493.8	17922.3	18491.8	17838.7
47.5°	17593.1	17311.0	17514.7	17796.9	18277.6	18282.8	18465.7	18105.2	18559.8	19066.6	18716.5
50°	17891.0	17755.1	18026.8	18559.8	19301.7	19380.1	19401.0	18889.0	19124.1	19526.4	19019.6
52.5°	17776.0	17729.0	18423.9	19249.5	20336.3	20733.4	20837.9	20205.7	20336.3	20153.4	19688.4
55°	17227.4	17368.4	18068.6	19751.1	21417.9	22645.8	22844.4	22045.0	21214.2	21355.2	20843.2
56°	16474.9	16229.3	17013.1	19181.6	21370.9	23267.6	23429.6	22431.6	21867.3	21684.4	20832.7
57.5°	13977.3	13658.6	14687.9	17258.7	20184.8	23032.5	23152.7	22593.6	21757.6	21386.6	19312.2
60°	8182.6	8339.4	9645.6	11902.9	15571.0	18883.7	19286.1	19693.6	19134.5	17472.9	14374.4
62.5°	3950.2	3850.9	4786.2	6824.1	9488.9	12054.4	11934.3	13078.6	13705.6	12415.0	9076.1
65°	2069.2	2058.7	2612.6	3725.5	5214.7	6332.9	6442.6	7059.2	7921.3	6395.6	4608.6
67.5°	1520.5	1562.3	1839.3	2617.8	3354.6	3422.5	3406.8	3715.1	3798.7	3213.5	2832.0
70°	1191.3	1212.2	1416.0	1990.8	2497.6	2236.4	2189.3	2225.9	2471.5	2576.0	2450.6
72.5°	862.2	883.1	1055.5	1342.9	1562.3	1525.7	1557.1	1760.9	2063.9	2173.7	2043.0
75°	574.8	590.4	684.5	820.4	924.9	998.0	1055.5	1290.6	1572.8	1635.5	1572.8
77.5°	397.1	412.8	475.5	580.0	590.4	637.5	658.4	768.1	940.5	1018.9	977.1
80°	224.7	224.7	256.0	297.8	365.8	428.5	438.9	527.7	606.1	658.4	668.8
82.5°	104.5	109.7	135.9	182.9	240.4	297.8	308.3	365.8	423.2	475.5	491.2
85°	52.3	57.5	78.4	109.7	146.3	177.7	172.4	177.7	188.1	177.7	182.9
87.5°	15.7	15.7	20.9	26.1	20.9	26.1	26.1	31.4	36.6	41.8	47.0
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°	8229.6	8229.6	8229.6	8229.6	8229.6	8229.6	8229.6	8229.6	8229.6	8229.6	8229.6
2.5°	8276.7	8292.3	8187.8	8287.1	8250.5	8245.3	8318.5	8308.0	8334.1	8323.7	8261.0
5°	8281.9	8245.3	8355.0	8255.8	8302.8	8402.1	8334.1	8490.9	8412.5	8464.8	8349.8
7.5°	8443.9	8454.3	8433.4	8475.2	8454.3	8501.3	8464.8	8501.3	8438.6	8443.9	8548.4
10°	8584.9	8553.6	8590.2	8537.9	8574.5	8558.8	8475.2	8449.1	8470.0	8443.9	8511.8
12.5°	8846.2	8788.7	8762.6	8699.9	8658.1	8501.3	8370.7	8297.6	8396.8	8412.5	8381.2
15°	9112.7	9117.9	8997.7	8856.6	8595.4	8360.3	8391.6	8417.7	8417.7	8459.5	8381.2
17.5°	9279.9	9279.9	9170.2	8888.0	8621.5	8485.7	8454.3	8370.7	8297.6	8287.1	8281.9
20°	9572.5	9483.7	9232.9	8882.8	8611.1	8548.4	8313.2	8114.7	7963.1	7910.9	7905.7
22.5°	9906.9	9682.2	9332.1	8893.2	8595.4	8506.6	8067.6	7769.8	7498.1	7383.2	7398.8
25°	10215.2	9854.7	9389.6	8846.2	8537.9	8109.4	7618.3	7205.5	6923.3	6829.3	6782.3
27.5°	10429.4	10037.5	9389.6	8888.0	8323.7	7665.3	7163.7	6636.0	6390.4	6327.7	6338.1
30°	10716.8	10267.4	9551.6	8799.2	7895.2	7090.5	6489.6	6144.8	5998.5	5946.2	5982.8
32.5°	11390.9	10868.3	9776.3	8584.9	7388.4	6515.8	6029.8	5836.5	5622.3	5517.8	5481.2
35°	12122.4	11437.9	9995.7	8224.4	6818.8	5993.3	5690.2	5512.5	5256.5	5141.6	5162.5
37.5°	13157.0	12169.4	10011.4	7628.7	6202.3	5700.7	5423.7	5146.8	4937.8	4760.1	4707.9
40°	14552.1	13167.4	9974.8	7001.7	5705.9	5355.8	5152.0	4807.1	4572.0	4446.6	4472.7
42.5°	15780.0	14337.8	9823.3	6291.1	5256.5	5120.7	4890.8	4551.1	4321.2	4190.6	4180.1
45°	16814.6	15200.0	9535.9	5685.0	4880.3	4859.4	4592.9	4331.7	4148.8	4028.6	4080.9
47.5°	17770.8	15894.9	9102.2	5078.9	4535.4	4577.2	4321.2	4159.2	4044.3	3934.5	3929.3
50°	18115.6	15884.5	8720.8	4577.2	4258.5	4237.6	4227.2	4054.7	3934.5	3840.5	3882.3
52.5°	18690.4	16062.1	8308.0	4232.4	4007.7	4012.9	4049.5	3924.1	3788.2	3730.8	3783.0
55°	19516.0	16088.3	7398.8	3830.0	3798.7	3835.3	3835.3	3751.7	3636.7	3589.7	3563.6
56°	18841.9	15309.7	6636.0	3725.5	3694.2	3694.2	3793.5	3699.4	3558.3	3521.8	3490.4
57.5°	17378.9	13413.0	5554.3	3600.1	3553.1	3626.3	3678.5	3579.2	3448.6	3396.4	3427.7
60°	11986.5	9076.1	4174.9	3328.4	3328.4	3448.6	3490.4	3344.1	3286.6	3281.4	3239.6
62.5°	6996.5	5287.9	3265.7	3082.8	3093.3	3192.6	3223.9	3140.3	3067.2	3156.0	3197.8
65°	3709.9	3156.0	2800.7	2821.6	2826.8	2905.2	3041.0	3035.8	3030.6	3056.7	3061.9
67.5°	2685.7	2623.0	2544.7	2523.8	2534.2	2591.7	2727.5	2832.0	2826.8	2764.1	2717.1
70°	2393.1	2304.3	2257.3	2262.5	2220.7	2288.6	2398.3	2466.3	2346.1	2272.9	2241.6
72.5°	1990.8	1964.7	1933.3	1938.5	1854.9	1839.3	1713.9	1713.9	1682.5	1661.6	1698.2
75°	1520.5	1510.1	1525.7	1499.6	1410.8	1316.7	1243.6	1175.7	1071.2	1029.4	1008.5
77.5°	961.4	992.8	1029.4	971.9	935.3	867.4	794.2	726.3	642.7	595.7	595.7
80°	653.1	679.3	705.4	694.9	653.1	590.4	533.0	459.8	402.3	365.8	360.5
82.5°	496.4	517.3	553.9	512.1	470.3	418.0	371.0	318.7	266.5	224.7	224.7
85°	177.7	203.8	224.7	245.6	261.3	266.5	229.9	188.1	151.5	120.2	115.0
87.5°	47.0	52.3	57.5	52.3	52.3	52.3	57.5	52.3	47.0	36.6	36.6
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)