

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: P533836

Luminaire Tested: **GALN-SA9B-735-U-T3R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533836
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-SA9B-735-U-T3R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3500K, 800mA 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: 41948 lumens
Efficiency: N/A
Efficacy: 115.2 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

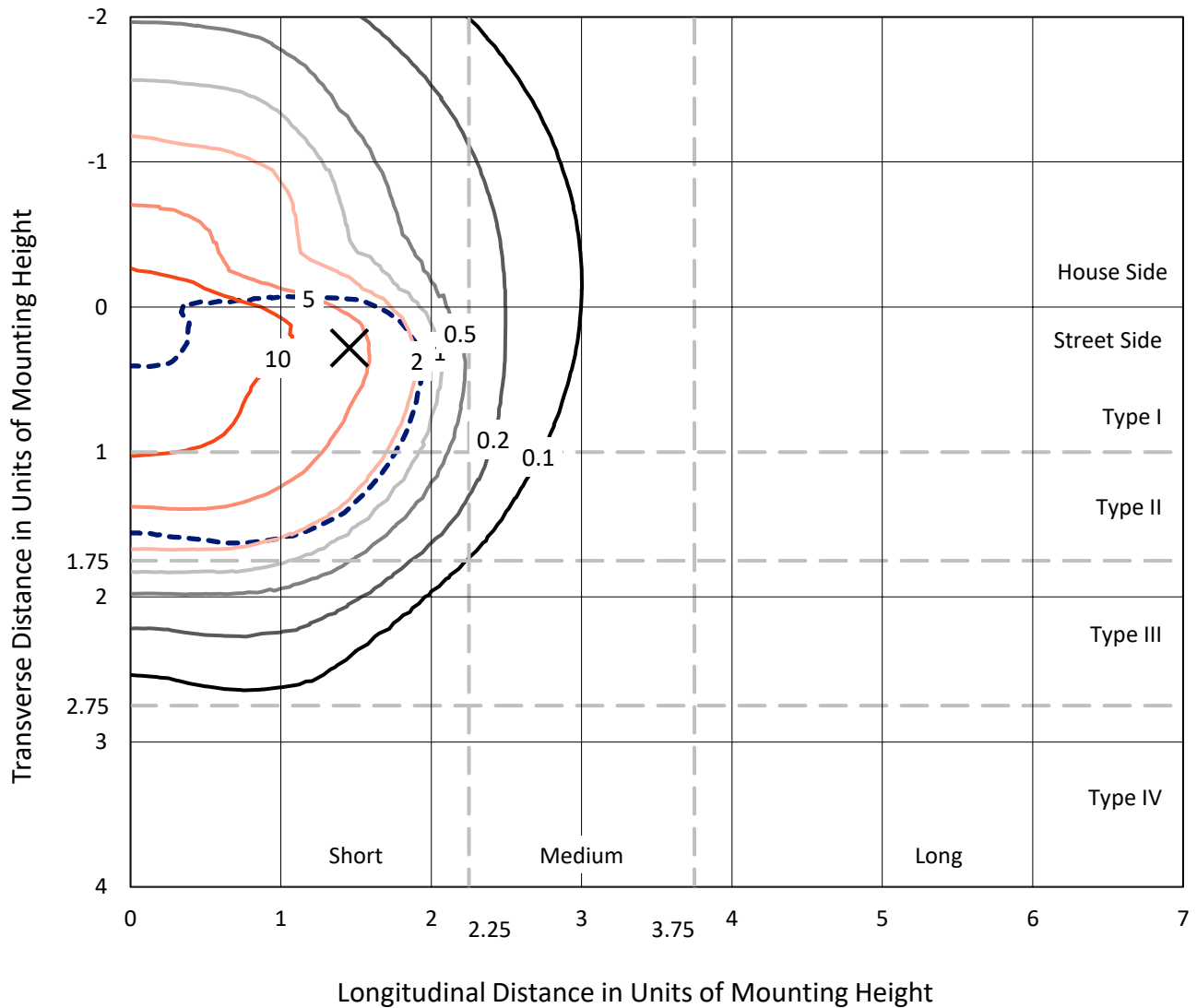
Input Watts (W): 364
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P533836
 CATALOG NUMBER: GALN-SA9B-735-U-T3R-GRSWH

Iso-Footcandle Lines of Horizontal Illumination

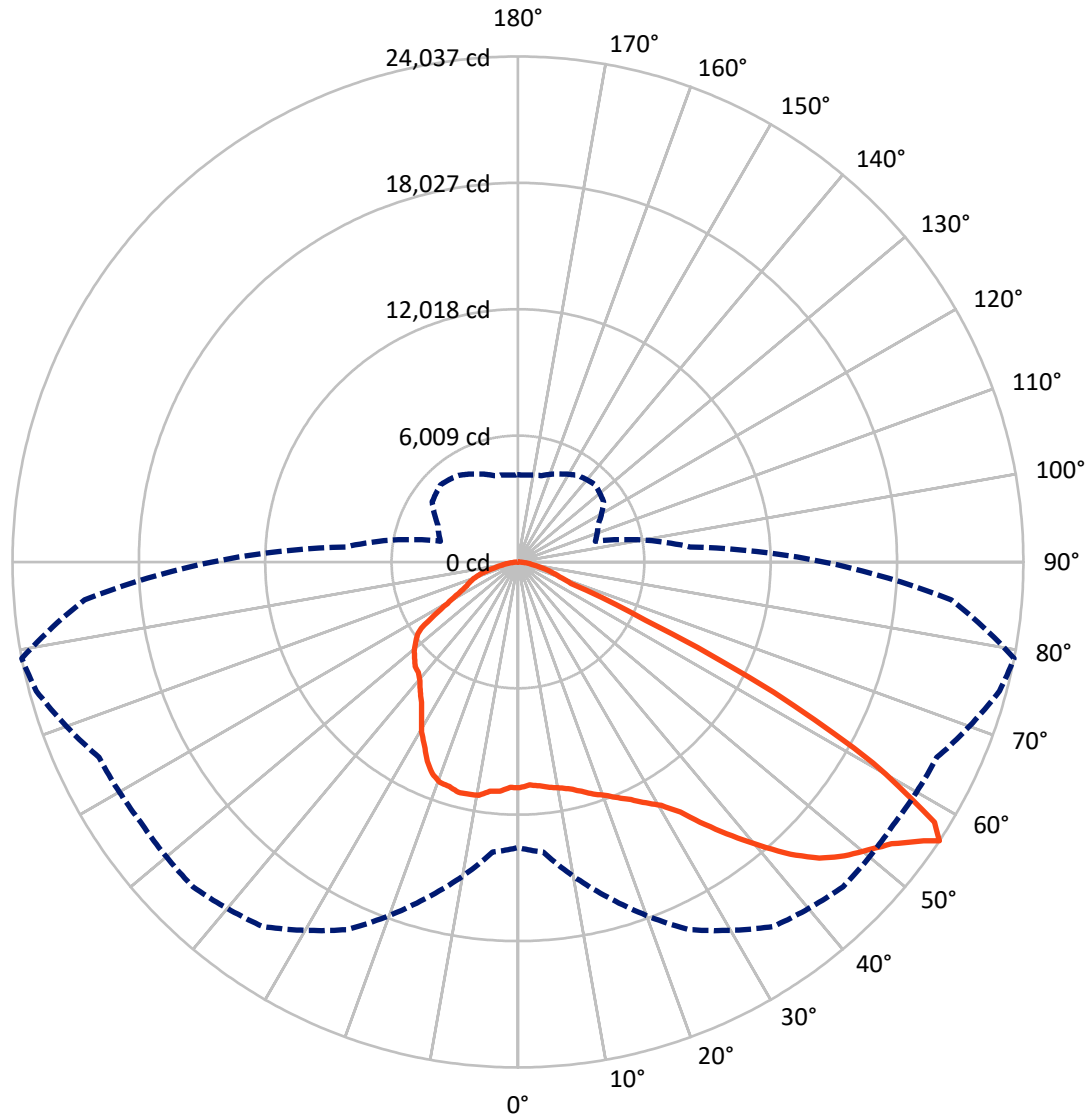
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17.2 fc
 Type II - Short - N/A

REPORT NUMBER: P533836
CATALOG NUMBER: GALN-SA9B-735-U-T3R-GRSWH

Luminous Intensity Polar Plot



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

REPORT NUMBER: P533836

CATALOG NUMBER: GALN-SA9B-735-U-T3R-GRSWH

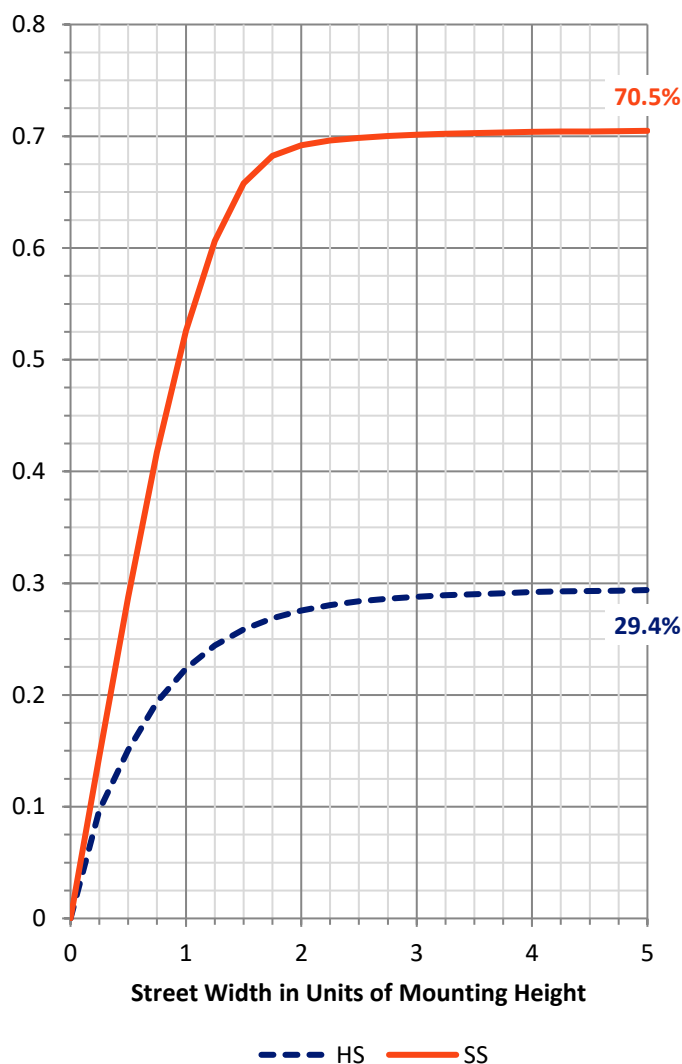
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12388.1	0.0	12388.1
	% Fixture	29.5	0.0	29.5
Street Side	Lumens	29559.8	0.0	29559.8
	% Fixture	70.5	0.0	70.5
Total	Lumens	41948.0	0.0	41948.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	975.8	2.3
10°-20°	2670.6	6.4
20°-30°	4568.8	10.9
30°-40°	7002.2	16.7
40°-50°	9463.5	22.6
50°-60°	10869.1	25.9
60°-70°	4954.5	11.8
70°-80°	1221.5	2.9
80°-90°	222.0	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°	41948.0	100.0
0°-180°	41948.0	100.0

Coefficient of Utilization



REPORT NUMBER: P533836

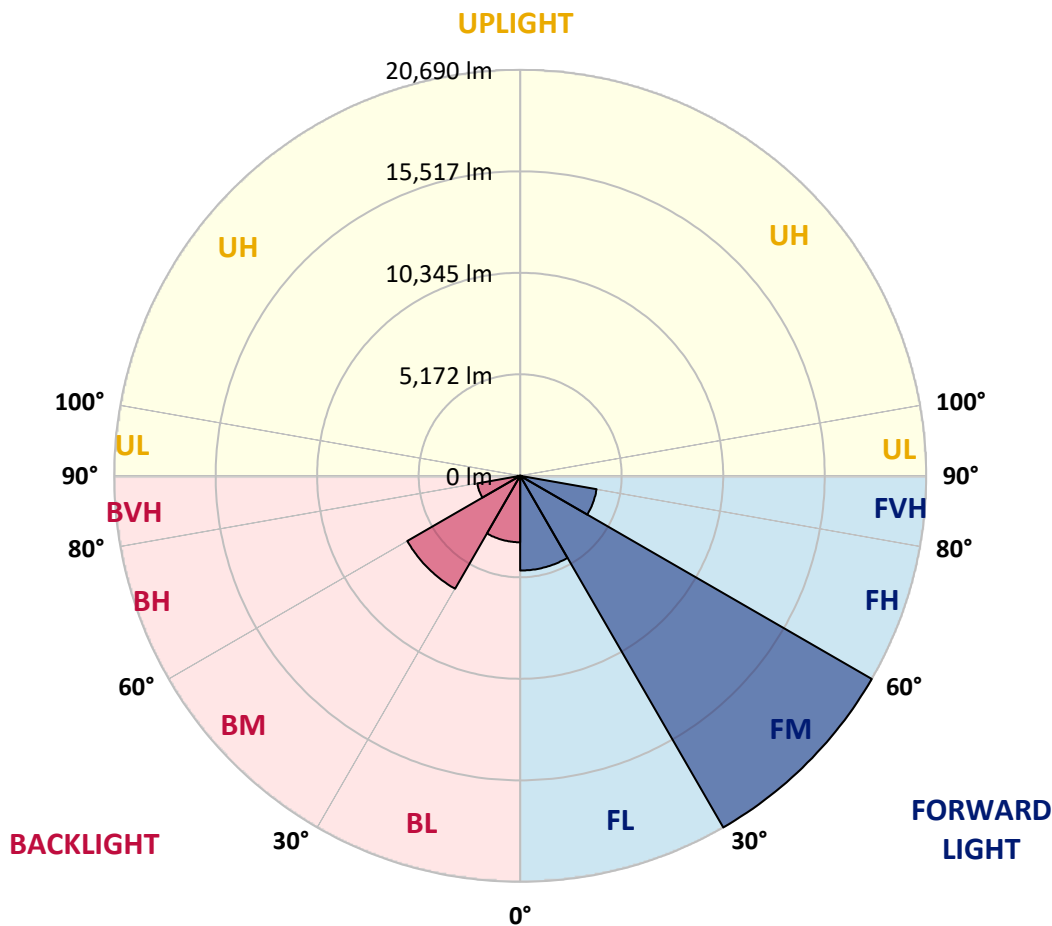
CATALOG NUMBER: GALN-SA9B-735-U-T3R-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4826.5	11.5			
FM (30°-60°)	20690.0	49.3			
FH (60°-80°)	3954.7	9.4			G2/5000
FVH (80°-90°)	88.6	0.2			G1/100
BL (0°-30°)	3388.7	8.1	B4/5000		
BM (30°-60°)	6644.8	15.8	B4/8500		
BH (60°-80°)	2221.3	5.3	B3/2500		G3/2500
BVH (80°-90°)	133.4	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





REPORT NUMBER: P533836

CATALOG NUMBER: GALN-SA9B-735-U-T3R-GRSWH

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	10732.8	10732.8	10732.8	10732.8	10732.8	10732.8	10732.8	10732.8	10732.8	10732.8	10732.8
2.5°	10210.3	10184.2	10246.9	10293.9	10351.4	10424.5	10461.1	10482.0	10664.9	10617.9	10759.0
5°	9990.8	9922.9	9969.9	10006.5	10105.8	10194.6	10293.9	10450.7	10617.9	10691.0	10863.5
7.5°	9797.5	9760.9	9750.5	9776.6	9912.5	10027.4	10199.8	10429.8	10701.5	10821.7	10920.9
10°	9478.8	9426.5	9504.9	9677.3	9713.9	9954.3	10152.8	10482.0	10717.2	10926.2	11218.8
12.5°	9337.7	9285.4	9301.1	9400.4	9656.4	9886.3	10121.5	10492.5	10988.9	11072.5	11464.4
15°	9562.4	9510.1	9525.8	9499.7	9745.2	9865.4	10236.4	10701.5	11177.0	11318.1	11736.1
17.5°	10074.4	10079.7	10011.7	9954.3	9896.8	10152.8	10408.9	10826.9	11250.1	11605.5	11919.0
20°	11051.6	10879.1	10743.3	10419.3	10330.5	10440.2	10764.2	11166.5	11548.0	11840.6	12195.9
22.5°	11804.0	11819.7	11626.4	11093.4	10900.0	10947.1	11224.0	11553.2	11971.2	12180.2	12587.8
25°	12896.1	12786.4	12577.4	12154.1	11720.4	11757.0	11960.8	12258.6	12373.6	12519.9	12964.0
27.5°	13894.2	13925.5	13512.7	13115.6	12577.4	12472.9	12838.6	12890.9	12697.6	12974.5	13126.0
30°	14907.9	14881.7	14610.0	14145.0	13617.2	13638.1	13800.1	13544.1	13277.6	13429.1	13533.6
32.5°	15958.2	15660.3	15649.9	15231.8	14829.5	14636.2	14437.6	14563.0	14150.2	14181.6	14082.3
35°	16799.4	16841.2	16600.9	16303.0	16104.5	15764.8	15221.4	15446.1	15367.7	15331.1	14902.6
37.5°	17410.8	17248.8	17369.0	17269.7	17081.6	16658.4	16094.0	16308.3	16344.8	16522.5	16026.1
40°	17912.4	17844.5	18163.3	18215.5	18084.9	17170.4	16156.7	16794.2	17342.9	17729.6	17139.1
42.5°	18152.8	18299.1	18633.5	19035.9	18743.3	17766.1	16480.7	17165.2	18387.9	18999.3	18194.6
45°	18476.8	18288.7	18785.1	19521.8	19527.1	18267.8	16794.2	17666.8	19203.1	20091.4	18915.7
47.5°	18147.6	18241.6	18753.7	19689.1	19929.4	18795.5	17640.7	18377.5	20101.9	20890.9	19584.5
50°	17410.8	17598.9	18534.3	19506.2	20232.5	19354.6	18612.6	19145.6	20932.7	21533.6	19694.3
52.5°	16642.7	16747.2	18210.3	19647.2	20368.3	20075.7	19913.7	20206.4	21946.4	22259.9	19830.1
55°	14552.5	15049.0	17139.1	19584.5	21032.0	21376.8	21251.4	21679.9	23096.0	23409.5	20572.1
56°	13585.9	13847.1	16496.4	19291.9	21162.6	21852.3	21789.6	21983.0	23707.3	24036.5	20687.1
57.5°	11798.8	11819.7	14066.6	17996.0	20671.4	21993.4	21930.7	22082.3	23587.1	23362.5	19678.6
60°	7383.4	7707.4	9572.8	13841.9	17578.0	20404.9	20760.2	19542.7	19887.6	19412.1	15310.2
62.5°	3824.9	3777.9	5016.3	8094.0	11668.2	14610.0	14939.2	14881.7	14348.8	13653.8	10001.3
65°	1907.2	1917.7	2623.1	4007.8	5977.8	7649.9	8569.5	8668.8	7252.8	6672.7	4744.6
67.5°	1384.7	1437.0	1886.3	2450.7	2816.5	3150.9	3861.5	3788.4	2868.7	2727.6	2529.1
70°	1076.4	1123.4	1531.0	1870.7	1698.2	1698.2	1849.8	1912.5	2043.1	2100.6	2168.5
72.5°	783.8	820.4	1170.5	1290.7	1113.0	1196.6	1384.7	1531.0	1666.9	1687.8	1766.2
75°	538.2	569.6	768.1	710.6	668.8	825.6	1013.7	1149.6	1248.9	1301.1	1348.1
77.5°	350.1	360.5	438.9	371.0	428.5	533.0	658.4	773.3	872.6	914.4	924.9
80°	156.8	172.4	188.1	235.1	297.8	381.4	470.3	564.3	627.0	642.7	674.1
82.5°	88.8	88.8	115.0	167.2	219.5	276.9	339.6	407.6	480.7	496.4	491.2
85°	47.0	47.0	67.9	99.3	135.9	162.0	156.8	162.0	172.4	198.6	193.3
87.5°	15.7	15.7	20.9	20.9	26.1	31.4	26.1	36.6	47.0	47.0	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



REPORT NUMBER: P533836

CATALOG NUMBER: GALN-SA9B-735-U-T3R-GRSWH

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	10732.8	10732.8	10732.8	10732.8	10732.8	10732.8	10732.8	10732.8	10732.8	10732.8	10732.8
2.5°	10717.2	10764.2	10701.5	10837.3	10837.3	10811.2	10680.6	10722.4	10753.7	10753.7	10779.9
5°	10920.9	10905.3	10947.1	10785.1	10685.8	10649.2	10435.0	10330.5	10241.7	10236.4	10158.0
7.5°	11035.9	10994.1	10978.4	10858.2	10419.3	10152.8	9693.0	9426.5	9369.0	9165.2	9243.6
10°	11218.8	11297.2	11218.8	10565.6	9954.3	9342.9	8893.5	8480.7	8318.7	8188.1	8109.7
12.5°	11595.0	11558.4	11103.8	10220.7	9363.8	8637.5	7968.6	7534.9	7372.9	7258.0	7247.5
15°	11913.8	11730.9	11035.9	9677.3	8444.1	7670.8	7122.1	6813.8	6740.7	6751.1	6798.2
17.5°	12023.5	11898.1	10680.6	9113.0	7759.6	6850.4	6594.4	6547.3	6615.3	6693.7	6714.6
20°	12195.9	11997.4	10534.3	8344.9	6913.1	6338.3	6322.7	6489.9	6615.3	6730.2	6745.9
22.5°	12556.5	12054.8	10058.8	7618.5	6333.1	6186.8	6338.3	6479.4	6672.7	6766.8	6683.2
25°	12661.0	11929.4	9389.9	6745.9	5967.3	6092.7	6254.7	6448.1	6583.9	6636.2	6672.7
27.5°	12749.8	11736.1	8485.9	6165.9	5852.4	6087.5	6254.7	6416.7	6489.9	6536.9	6578.7
30°	13000.6	11678.6	7702.1	5779.2	5779.2	5983.0	6197.2	6239.0	6338.3	6395.8	6469.0
32.5°	13126.0	11281.5	6897.4	5533.6	5706.1	6035.3	6050.9	6129.3	6134.5	6181.6	6103.2
35°	13455.2	10999.3	6150.2	5356.0	5737.4	5983.0	6061.4	6014.4	5758.3	5632.9	5659.0
37.5°	13695.6	10858.2	5612.0	5335.1	5742.6	6040.5	6082.3	5727.0	5460.5	5251.5	5303.7
40°	14343.5	10508.1	5204.4	5298.5	5789.7	6103.2	5988.2	5601.6	5120.8	4906.6	4870.0
42.5°	14839.9	10257.3	4948.4	5256.7	5826.2	6192.0	5941.2	5350.7	4859.6	4661.0	4713.2
45°	15414.7	10199.8	4812.5	5267.1	5888.9	6239.0	5883.7	5157.4	4634.9	4556.5	4540.8
47.5°	15618.5	9787.0	4666.2	5178.3	5873.3	6223.4	5690.4	5011.1	4551.3	4561.7	4603.5
50°	15278.9	9363.8	4556.5	4995.4	5768.8	6082.3	5387.3	4817.8	4504.2	4634.9	4708.0
52.5°	14845.2	8930.1	4331.8	4749.8	5554.5	5862.8	5246.2	4807.3	4457.2	4415.4	4431.1
55°	14975.8	8574.8	4018.3	4415.4	5209.7	5455.2	5089.5	4708.0	4342.3	4185.5	4237.7
56°	14552.5	8209.0	3814.5	4206.4	4974.5	5194.0	5011.1	4619.2	4248.2	4143.7	4143.7
57.5°	13355.9	6981.0	3548.0	3872.0	4478.1	4739.4	4859.6	4566.9	4143.7	3960.8	3966.0
60°	9849.8	4964.1	3182.2	3412.1	3710.0	3919.0	4478.1	4420.6	3882.4	3757.0	3710.0
62.5°	6071.8	3626.4	2921.0	3009.8	3161.3	3333.8	3908.5	4002.6	3605.5	3469.6	3438.3
65°	3401.7	2774.7	2722.4	2759.0	2832.1	2921.0	3244.9	3453.9	3182.2	2973.2	2962.8
67.5°	2487.3	2482.0	2523.8	2555.2	2586.5	2586.5	2664.9	2748.5	2711.9	2544.7	2529.1
70°	2210.3	2226.0	2257.3	2262.6	2273.0	2236.4	2173.7	2147.6	2189.4	2084.9	2064.0
72.5°	1823.6	1875.9	1912.5	1917.7	1860.2	1813.2	1729.6	1640.8	1609.4	1588.5	1583.3
75°	1400.4	1437.0	1452.6	1447.4	1426.5	1358.6	1259.3	1170.5	1113.0	1050.3	1081.6
77.5°	945.8	998.0	1024.2	1024.2	992.8	888.3	841.3	773.3	715.9	647.9	658.4
80°	663.6	700.2	742.0	736.8	684.5	632.3	564.3	501.6	454.6	402.4	397.1
82.5°	496.4	517.3	538.2	527.8	491.2	438.9	391.9	334.4	282.2	245.6	245.6
85°	177.7	193.3	235.1	245.6	266.5	266.5	224.7	188.1	151.5	125.4	125.4
87.5°	52.3	52.3	57.5	57.5	52.3	57.5	47.0	52.3	57.5	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)