

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: P534090

Luminaire Tested: **GALN-SA9C-740-U-T2-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P534090
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-14)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA9C-740-U-T2-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 53460 lumens
Efficiency: N/A
Efficacy: 111.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G4

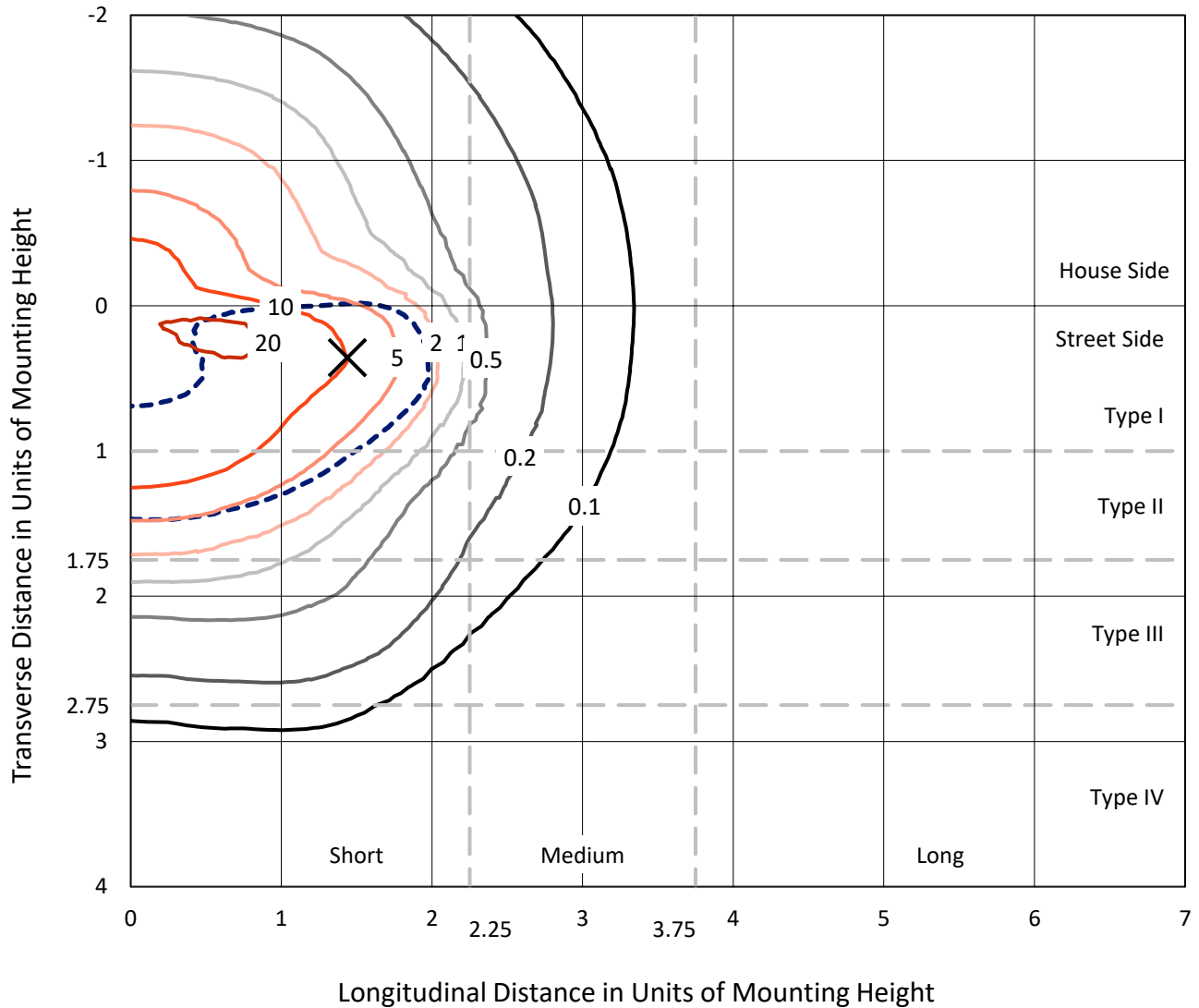
Input Watts (W): 481
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

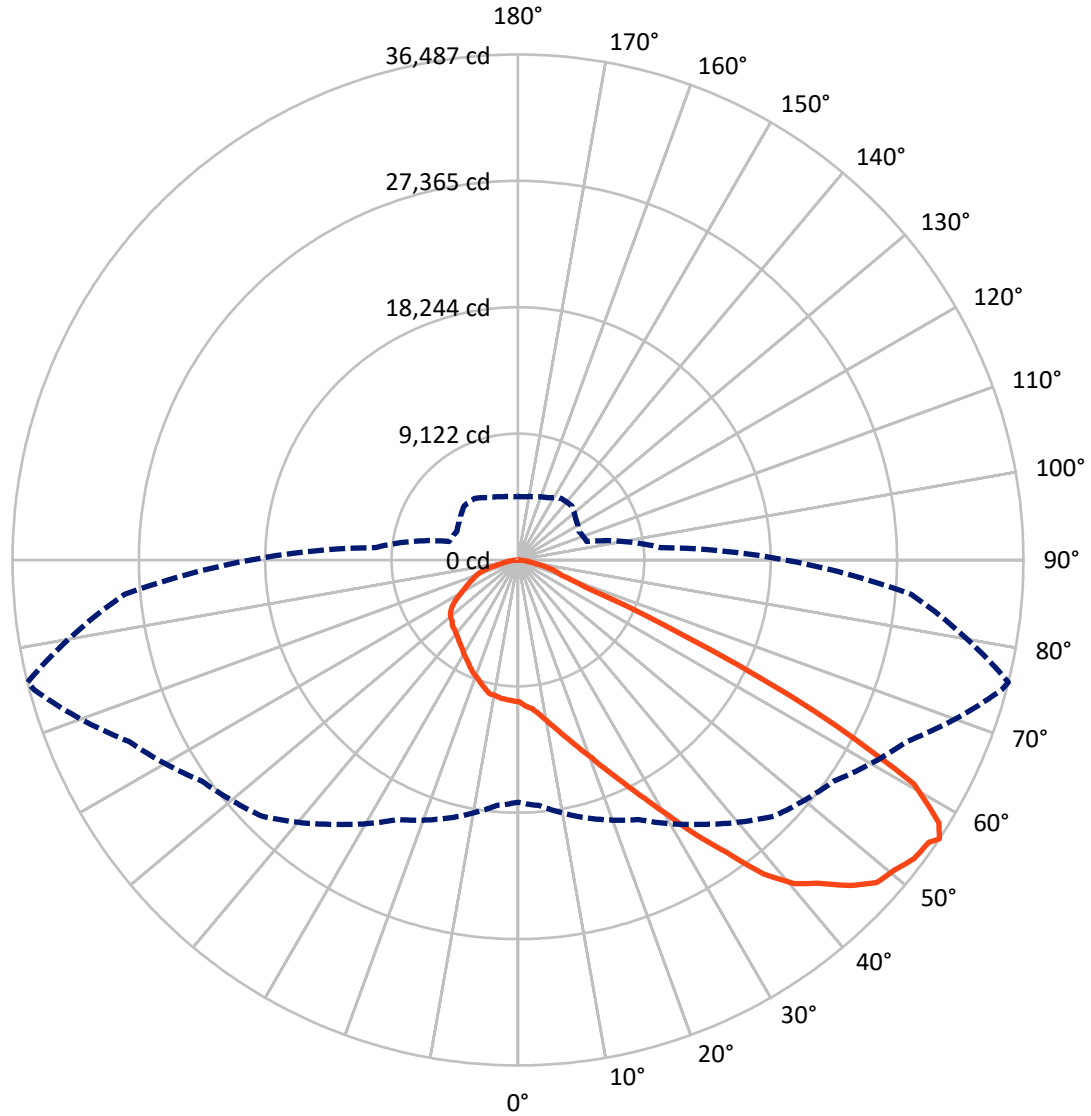
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 22.8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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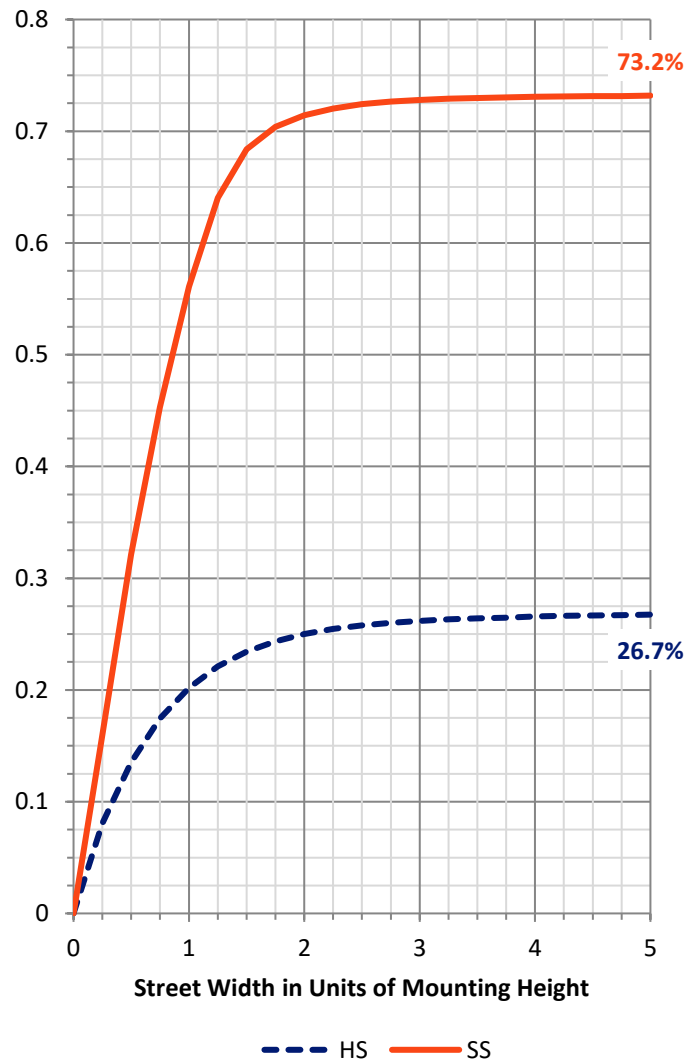
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	14373.8	0.0	14373.8
	% Fixture	26.9	0.0	26.9
Street Side	Lumens	39086.2	0.0	39086.2
	% Fixture	73.1	0.0	73.1
Total	Lumens	53460.0	0.0	53460.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1014.4	1.9
10°-20°	3186.5	6.0
20°-30°	5572.9	10.4
30°-40°	8725.5	16.3
40°-50°	12693.1	23.7
50°-60°	13950.5	26.1
60°-70°	6226.9	11.6
70°-80°	1798.6	3.4
80°-90°	291.7	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°	53460.0	100.0
0°-180°	53460.0	100.0

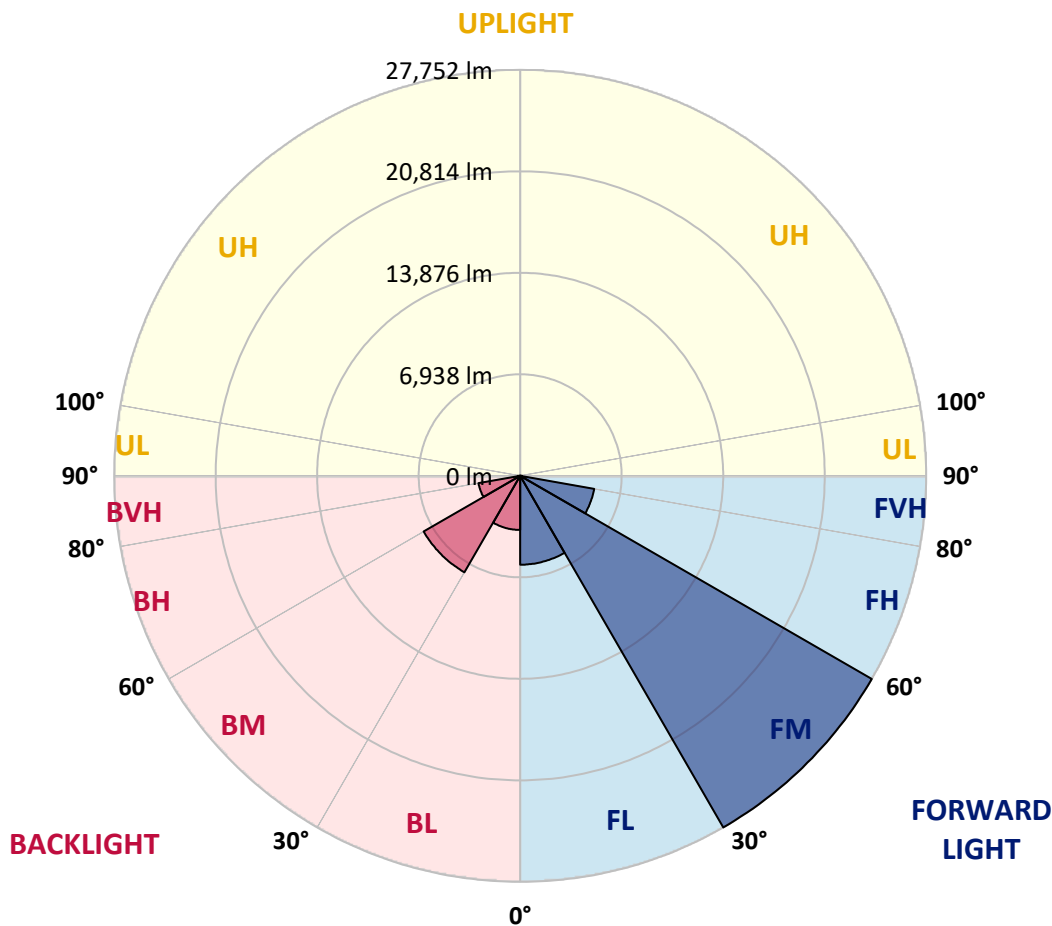


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	6075.1	11.4			
FM (30°-60°)	27752.1	51.9			
FH (60°-80°)	5133.4	9.6			G3/7500
FVH (80°-90°)	125.6	0.2			G2/225
BL (0°-30°)	3698.7	6.9	B4/5000		
BM (30°-60°)	7616.9	14.2	B4/8500		
BH (60°-80°)	2892.0	5.4	B4/5000		G4/5000
BVH (80°-90°)	166.2	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-G4
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	10228.9	10228.9	10228.9	10228.9	10228.9	10228.9	10228.9	10228.9	10228.9	10228.9	10228.9
2.5°	11268.4	11088.2	11074.4	11025.9	11053.6	10928.8	10797.2	10623.9	10443.7	10554.6	10291.3
5°	12058.4	11815.9	11912.9	11746.6	11767.4	11601.1	11330.8	11129.8	10908.0	10776.4	10589.3
7.5°	12335.6	12356.4	12425.7	12398.0	12259.4	12259.4	12079.2	11725.8	11337.7	11261.5	10949.6
10°	12709.9	12716.8	12640.6	12661.4	12855.4	12765.3	12605.9	12453.5	11954.5	11864.4	11310.0
12.5°	12841.5	12716.8	12841.5	12952.4	13181.1	13305.9	13271.2	13160.3	12626.7	12564.3	11753.5
15°	12862.3	12786.1	12890.1	13139.5	13340.5	13867.2	14130.6	14054.3	13347.4	13354.4	12252.5
17.5°	12765.3	12869.3	12910.8	13125.7	13590.0	14082.0	14844.4	14948.3	14366.2	14276.1	12883.1
20°	12897.0	12820.8	12876.2	13070.2	13687.0	14456.3	15454.2	16140.3	15322.5	15260.2	13534.6
22.5°	13402.9	13298.9	13285.1	13409.8	13853.3	14650.3	16098.7	17332.3	16486.8	16521.5	14345.4
25°	13797.9	13853.3	13804.8	13797.9	14075.1	14941.4	16951.1	18753.0	18066.9	17865.9	15301.7
27.5°	14477.1	14608.7	14511.7	14643.4	14581.0	15378.0	17561.0	20326.1	19771.7	19501.4	16168.0
30°	15419.6	15488.9	15398.8	15398.8	15211.7	15987.8	18115.4	21968.5	21739.8	21372.5	17186.7
32.5°	16660.1	16764.0	16583.8	16479.9	16452.1	16895.7	19113.3	23590.2	23978.3	23666.4	18538.1
35°	18302.5	18240.1	18025.3	17928.3	17554.0	18288.6	20596.4	25454.4	26473.1	25918.7	20173.6
37.5°	19750.9	19653.9	19640.0	19099.5	19189.6	19792.5	21857.7	26868.1	28891.7	28732.4	21899.2
40°	21102.3	21192.4	21337.9	21033.0	20894.4	21559.7	23326.8	27949.2	30769.8	30707.4	23229.8
42.5°	22550.7	22467.5	22723.9	22467.5	22259.6	23202.1	24920.8	28697.7	32419.2	31906.4	24622.8
45°	24650.5	24387.2	24477.2	24498.0	24345.6	24692.1	25579.1	29238.3	33576.5	33521.1	25641.5
47.5°	26403.8	26410.8	26258.3	26140.5	25676.2	26022.7	26313.7	29577.8	34907.1	34817.0	26036.5
50°	27055.3	26965.2	27408.7	27665.1	27692.8	26986.0	26888.9	29764.9	35607.1	35212.0	26431.5
52.5°	24712.9	24796.0	25496.0	27020.6	27900.7	27977.0	27561.2	30153.0	35891.2	35808.0	26750.3
55°	19889.5	20291.4	21441.8	23202.1	25288.1	27582.0	28288.8	30555.0	36043.7	35974.3	28164.1
56°	17484.7	17796.6	19293.5	20672.6	23292.2	26147.4	27831.4	30984.6	36161.5	36487.2	28496.7
57.5°	14075.1	14435.5	15509.7	17075.9	20166.7	23416.9	26570.2	30458.0	35704.1	35828.8	28739.3
60°	8801.3	8835.9	10124.9	11157.5	13333.6	16507.6	20277.6	26500.8	33042.9	32862.7	25814.8
62.5°	5772.8	5779.7	6950.9	7796.4	8787.4	9515.1	11933.7	17574.8	24380.2	24061.4	18378.7
65°	4054.1	4144.2	5052.1	6181.7	6583.6	6202.5	6126.2	9265.6	13617.7	13160.3	9875.4
67.5°	2966.1	2973.0	3776.9	4989.7	5571.8	4719.4	3832.4	4525.4	5391.6	5377.8	4573.9
70°	1961.2	2044.4	2661.2	3728.4	4393.7	3790.8	3132.4	3236.4	3430.4	3430.4	3402.7
72.5°	1143.5	1219.7	1628.6	2363.2	2467.1	2370.1	2481.0	2772.1	2896.8	2889.9	2855.2
75°	651.4	686.1	776.2	984.1	1226.6	1448.4	1822.6	2099.8	2224.6	2300.8	2210.7
77.5°	381.2	401.9	457.4	561.3	637.6	783.1	991.0	1185.1	1351.4	1330.6	1344.4
80°	201.0	201.0	256.4	332.6	443.5	554.4	658.4	769.2	859.3	880.1	900.9
82.5°	117.8	124.7	166.3	242.6	318.8	395.0	505.9	582.1	665.3	672.2	686.1
85°	62.4	69.3	104.0	159.4	214.8	242.6	249.5	235.6	256.4	242.6	277.2
87.5°	20.8	20.8	34.7	27.7	27.7	34.7	41.6	41.6	55.4	55.4	55.4
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°	10228.9	10228.9	10228.9	10228.9	10228.9	10228.9	10228.9	10228.9	10228.9	10228.9	10228.9
2.5°	10284.3	10284.3	10166.5	9944.7	9910.1	9820.0	9736.8	9729.9	9667.5	9612.1	9584.4
5°	10478.4	10263.5	10090.3	9889.3	9653.7	9542.8	9418.1	9279.5	9224.0	9279.5	9272.5
7.5°	10700.1	10520.0	10000.2	9626.0	9355.7	9244.8	9106.2	8960.7	8974.5	8974.5	8877.5
10°	10915.0	10672.4	9840.8	9362.6	8967.6	8884.4	8808.2	8863.6	8932.9	8946.8	8884.4
12.5°	11275.3	10727.9	9764.6	9099.3	8849.8	8669.6	8718.1	8870.6	9016.1	8974.5	9023.0
15°	11545.6	10776.4	9418.1	8829.0	8517.1	8600.3	8773.6	8877.5	9120.1	9092.3	9140.9
17.5°	11809.0	10804.1	9078.5	8468.6	8337.0	8565.7	8697.3	8995.3	9071.6	9237.9	9300.2
20°	12349.5	10859.5	8732.0	8246.9	8205.3	8468.6	8697.3	8835.9	9002.3	9147.8	9147.8
22.5°	12626.7	10831.8	8503.3	7955.8	8087.5	8253.8	8461.7	8697.3	8697.3	8835.9	8842.9
25°	12973.2	10720.9	8142.9	7817.2	7914.2	8073.6	8309.2	8226.1	8316.2	8316.2	8427.0
27.5°	13368.2	10485.3	7831.1	7567.7	7761.8	7935.0	7969.7	7914.2	7810.3	7796.4	7754.8
30°	13687.0	10194.2	7602.4	7484.5	7643.9	7741.0	7630.1	7512.3	7332.1	7318.2	7221.2
32.5°	14123.6	9833.9	7318.2	7276.6	7456.8	7463.8	7429.1	7248.9	6985.6	6874.7	6763.8
35°	14858.2	9626.0	7103.4	7165.8	7221.2	7200.4	7138.0	6944.0	6680.7	6632.1	6590.6
37.5°	15398.8	9473.5	6881.6	6957.9	7006.4	7034.1	6847.0	6632.1	6639.1	6542.1	6514.3
40°	16008.6	9376.5	6701.4	6736.1	6743.0	6833.1	6604.4	6500.5	6549.0	6486.6	6528.2
42.5°	16791.7	9404.2	6514.3	6486.6	6618.3	6583.6	6472.7	6334.1	6361.9	6174.8	6202.5
45°	17207.5	9591.3	6403.4	6278.7	6424.2	6417.3	6271.8	6140.1	5973.8	5613.4	5627.3
47.5°	17484.7	9639.8	6140.1	6056.9	6209.4	6299.5	6133.2	5828.2	5592.6	5336.2	5273.8
50°	17768.9	9729.9	6015.4	5842.1	5904.5	6119.3	5911.4	5620.3	5391.6	5163.0	5197.6
52.5°	18018.4	9903.2	5772.8	5516.4	5627.3	5862.9	5752.0	5398.6	5149.1	4962.0	4906.5
55°	19127.2	10291.3	5363.9	5031.3	5294.6	5592.6	5530.3	5100.6	4830.3	4733.3	4719.4
56°	19300.4	10305.1	5149.1	4865.0	5107.5	5502.5	5426.3	4968.9	4726.4	4573.9	4580.8
57.5°	19328.2	10138.8	4844.2	4712.5	4920.4	5370.9	5273.8	4865.0	4532.3	4393.7	4352.1
60°	17006.6	7914.2	4463.0	4379.8	4622.4	4968.9	4934.3	4580.8	4206.6	4047.2	4123.4
62.5°	11594.1	5800.5	4165.0	4151.2	4275.9	4615.5	4525.4	4206.6	3894.7	3790.8	3742.3
65°	6750.0	4400.6	3873.9	3818.5	3922.5	4102.6	4165.0	3832.4	3506.7	3437.3	3416.6
67.5°	3984.8	3638.3	3499.7	3409.6	3375.0	3485.9	3534.4	3340.3	3014.6	2917.6	3000.8
70°	3333.4	3236.4	3243.3	3090.8	3007.7	2931.4	2889.9	2716.6	2446.3	2321.6	2286.9
72.5°	2876.0	2834.4	2806.7	2668.1	2591.9	2418.6	2238.4	2065.2	1864.2	1760.3	1767.2
75°	2196.9	2183.0	2196.9	2127.6	1995.9	1857.3	1691.0	1469.2	1316.7	1185.1	1212.8
77.5°	1309.8	1351.4	1372.2	1344.4	1289.0	1164.3	1060.3	914.8	769.2	665.3	651.4
80°	900.9	935.6	970.2	935.6	880.1	790.0	679.2	568.3	464.3	408.9	395.0
82.5°	686.1	720.7	741.5	706.9	637.6	540.6	464.3	388.1	304.9	249.5	235.6
85°	249.5	284.1	277.2	332.6	360.4	346.5	298.0	228.7	173.3	124.7	117.8
87.5°	69.3	62.4	69.3	69.3	69.3	62.4	55.4	55.4	55.4	34.7	27.7
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)