

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: P534078

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

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P534078
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-28)
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-AFL-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 57511 lumens
Efficiency: N/A
Efficacy: 119.6 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

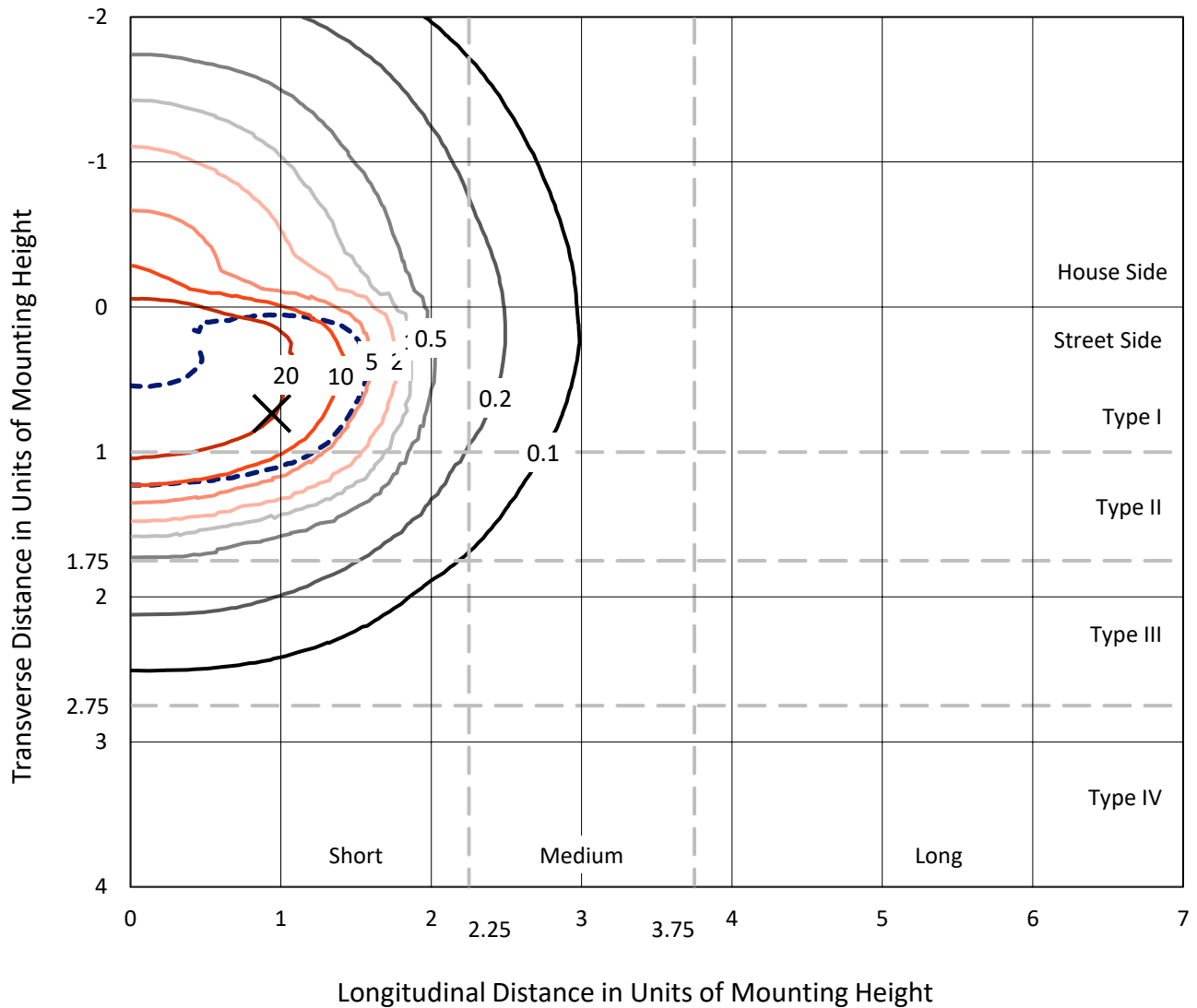
Input Watts (W): 481
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

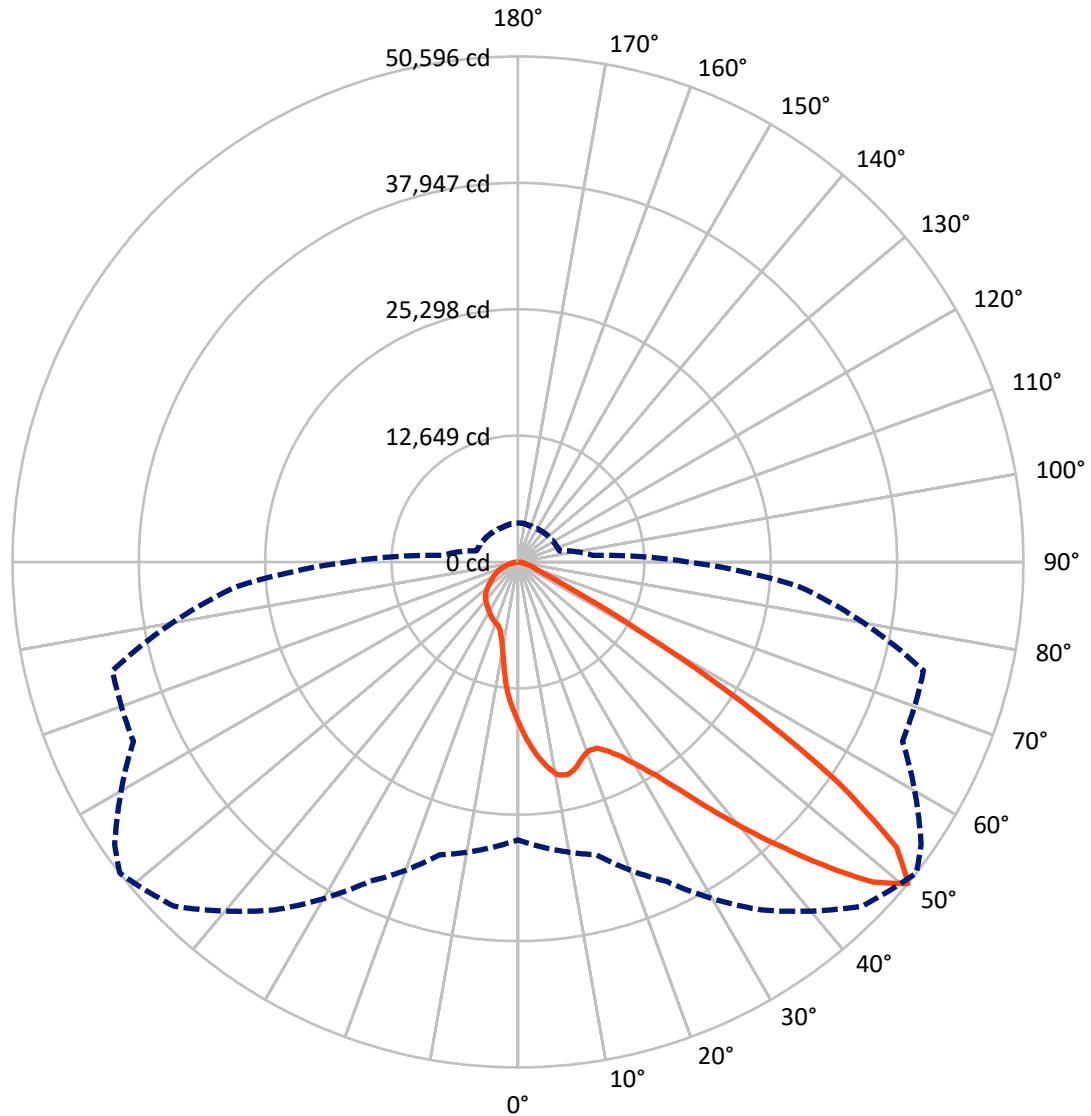
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 33.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 52-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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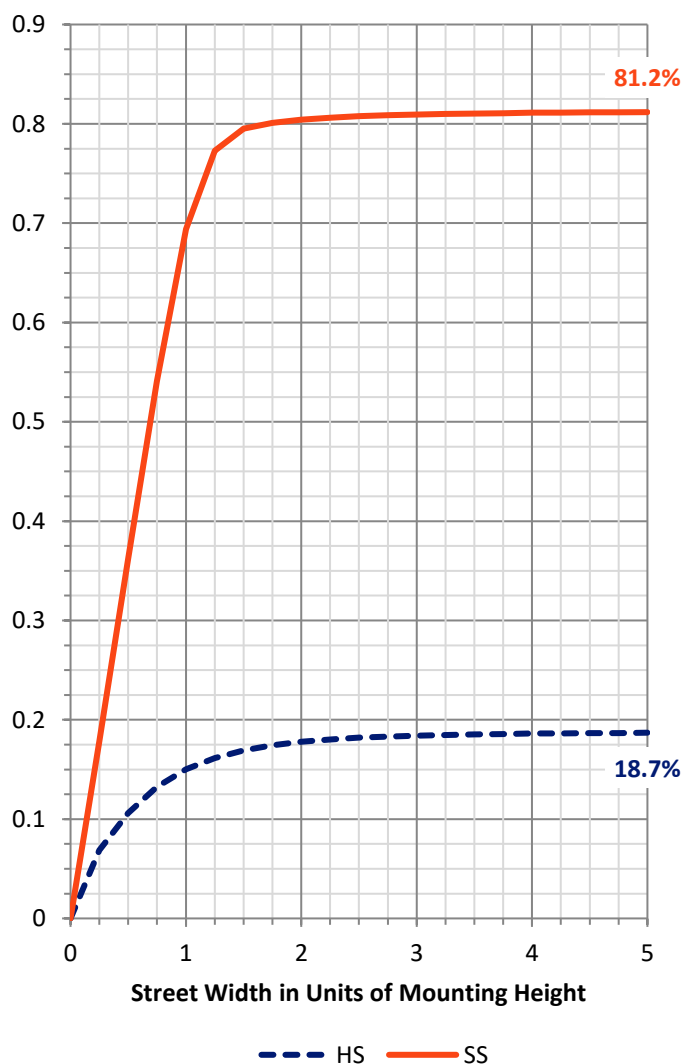
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10810.7	0.0	10810.7
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	46700.3	0.0	46700.3
	% Fixture	81.2	0.0	81.2
Total	Lumens	57511.0	0.0	57511.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1494.2	2.6
10°-20°	4004.8	7.0
20°-30°	6746.0	11.7
30°-40°	11320.3	19.7
40°-50°	17317.3	30.1
50°-60°	12625.7	22.0
60°-70°	2809.8	4.9
70°-80°	1013.5	1.8
80°-90°	179.4	0.3
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°	57511.0	100.0
0°-180°	57511.0	100.0

Coefficient of Utilization



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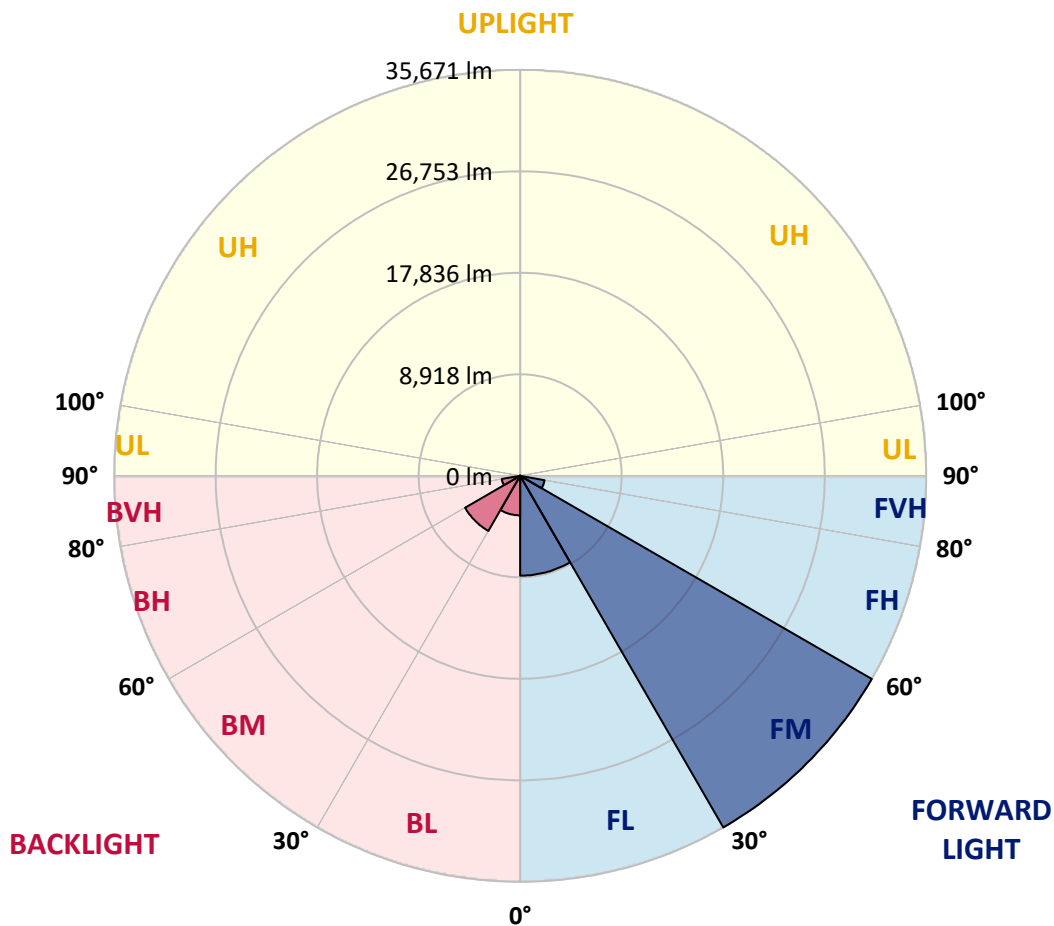
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	8772.4	15.3			
FM (30°-60°)	35671.2	62.0			
FH (60°-80°)	2176.3	3.8			G2/5000
FVH (80°-90°)	80.4	0.1			G1/100
BL (0°-30°)	3472.6	6.0	B4/5000		
BM (30°-60°)	5592.0	9.7	B4/8500		
BH (60°-80°)	1647.0	2.9	B3/2500		G3/2500
BVH (80°-90°)	99.0	0.2			G1/100
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°	52°	55°	65°	75°	85°
0°	16211.4	16211.4	16211.4	16211.4	16211.4	16211.4	16211.4	16211.4	16211.4	16211.4	16211.4
2.5°	19087.7	18720.4	18762.0	18498.6	18214.4	18131.3	17840.2	17562.9	17355.0	16911.4	16502.5
5°	20862.0	20751.1	20584.8	20376.9	20162.0	19635.3	19337.2	18990.7	18228.3	17542.1	16862.9
7.5°	21118.5	21097.7	21187.8	21187.8	21264.0	21063.0	20640.2	20397.7	19586.8	18470.9	17209.4
10°	19316.4	19378.8	19815.5	20383.8	21173.9	21721.5	21652.2	21589.8	20702.6	19177.8	17618.4
12.5°	17881.7	17743.1	17999.6	18484.7	19669.9	20993.7	21887.8	21894.7	21666.0	20307.6	17916.4
15°	17070.8	17167.9	17237.2	17465.9	18360.0	19891.7	21465.0	21929.4	22934.4	21104.6	18387.7
17.5°	17590.6	17264.9	17251.0	17306.5	17763.9	18914.5	20681.8	21478.9	23627.5	22130.4	18969.9
20°	18269.9	18262.9	18068.9	17999.6	17992.6	19018.4	20168.9	21250.2	23994.8	23461.1	19559.0
22.5°	19462.0	19462.0	19143.2	18990.7	18664.9	19503.6	20238.3	20972.9	24604.7	24376.0	19843.2
25°	21458.1	21132.3	20584.8	20210.5	20023.4	20321.4	20972.9	21631.4	25138.4	25346.3	20432.3
27.5°	23301.7	22788.8	22518.5	21874.0	21624.4	21451.2	22047.2	22712.6	25762.2	26857.3	20751.1
30°	25394.9	25304.8	24819.6	23987.9	23371.0	23052.2	23599.7	24258.2	26905.8	28402.9	21485.8
32.5°	29137.5	28319.7	27661.3	26642.4	25637.4	24958.2	25498.8	25935.5	28804.9	30017.8	22289.8
35°	33178.3	32914.9	31778.2	29941.5	28402.9	27792.9	28111.8	28437.5	31015.8	32485.2	23641.3
37.5°	37149.7	36789.3	35853.6	34308.0	32436.7	31196.0	31424.7	31805.9	33497.1	35812.0	25290.9
40°	40005.2	39561.6	39090.3	38861.6	37004.1	35306.1	35174.4	35271.4	36851.6	38930.9	27120.6
42.5°	40213.1	40760.7	40906.2	41828.0	41391.4	39998.3	39187.4	39208.2	40053.7	42015.2	28971.2
45°	39776.5	39270.5	40344.8	42860.7	44302.4	44953.9	43588.5	43415.2	42036.0	43803.3	29893.0
47.5°	35195.2	35333.8	37149.7	41128.0	45293.5	48204.5	47885.7	47310.4	43096.4	43741.0	29747.5
50°	27820.7	28659.3	30343.5	35299.1	42521.1	48717.4	50595.6	49264.9	42465.7	42022.1	28264.2
52.5°	18526.3	18872.9	19981.8	26379.0	34190.2	43546.9	47476.7	47781.7	41883.5	39769.6	26386.0
55°	8247.8	8220.1	9779.5	13778.6	21451.2	33136.7	38792.3	40649.8	39644.8	37475.4	24556.2
57.5°	3493.2	3611.0	4248.6	5953.7	10548.8	19995.7	26282.0	27910.8	30489.1	30773.2	18838.2
60°	2363.4	2377.3	2550.6	2980.3	4415.0	9391.4	13785.6	15740.1	17583.7	17459.0	9994.4
62.5°	1857.5	1906.0	2037.7	2211.0	2619.9	4262.5	6168.5	7256.7	7374.5	6203.2	3791.2
65°	1587.2	1594.1	1725.8	1871.3	2051.5	2481.3	2973.4	3028.8	3063.5	2952.6	2786.2
67.5°	1309.9	1323.8	1427.8	1594.1	1760.5	1899.1	2037.7	2107.0	2266.4	2578.3	2536.7
70°	1039.6	1060.4	1150.5	1289.1	1441.6	1524.8	1698.1	1760.5	1906.0	2148.6	2245.6
72.5°	790.1	797.1	873.3	970.3	1108.9	1192.1	1337.7	1407.0	1504.0	1711.9	1802.0
75°	568.3	589.1	644.6	693.1	713.9	769.3	907.9	984.2	1122.8	1212.9	1219.8
77.5°	298.0	311.9	325.8	325.8	395.1	499.0	589.1	630.7	727.7	797.1	762.4
80°	117.8	124.8	159.4	214.9	277.2	360.4	422.8	443.6	526.7	568.3	589.1
82.5°	69.3	76.2	104.0	152.5	201.0	256.4	305.0	325.8	381.2	429.7	443.6
85°	34.7	41.6	62.4	97.0	131.7	159.4	152.5	145.5	145.5	138.6	145.5
87.5°	13.9	13.9	20.8	20.8	20.8	27.7	34.7	34.7	34.7	41.6	41.6
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°	16211.4	16211.4	16211.4	16211.4	16211.4	16211.4	16211.4	16211.4	16211.4	16211.4	16211.4
2.5°	16232.2	15955.0	15698.5	15227.2	14714.3	14568.8	13972.7	13757.9	13605.4	13425.2	13369.7
5°	16315.4	15948.0	15123.2	14173.7	13418.2	12447.9	11810.3	11124.1	10625.1	10500.3	10465.7
7.5°	16488.6	15857.9	14437.1	13002.4	11456.8	10139.9	9134.9	8594.3	8116.1	8088.4	8039.9
10°	16682.7	15587.6	13688.5	11436.0	9460.7	8240.9	7637.9	7402.2	7284.4	7256.7	7242.8
12.5°	16842.1	15532.2	12849.9	9911.2	8046.8	7312.1	7131.9	7111.1	7159.6	7173.5	7201.2
15°	16911.4	15310.4	11838.0	8545.8	7166.6	6896.3	6972.5	7055.7	7090.3	7180.4	7111.1
17.5°	17043.1	15026.2	10590.4	7464.6	6674.5	6723.0	6854.7	6951.7	7007.1	7069.5	6979.4
20°	17112.4	14769.8	9419.1	6820.0	6501.2	6591.3	6771.5	6847.7	6917.0	6944.8	6840.8
22.5°	17050.0	14243.0	8386.4	6300.2	6334.9	6452.7	6612.1	6695.3	6653.7	6542.8	6480.4
25°	16883.7	13501.4	7312.1	5967.5	6099.2	6307.1	6431.9	6369.5	6293.3	6230.9	6210.1
27.5°	16876.8	12593.5	6535.8	5662.6	5898.2	6182.4	6140.8	6085.3	6120.0	6071.5	6016.0
30°	16911.4	11713.2	5898.2	5489.3	5752.7	5891.3	5939.8	5884.3	5925.9	5835.8	5863.5
32.5°	16731.2	10853.8	5482.3	5288.3	5579.4	5572.5	5731.9	5773.4	5676.4	5489.3	5517.0
35°	16807.5	10160.7	5128.9	5198.2	5385.3	5385.3	5510.1	5461.6	5205.1	5094.2	5121.9
37.5°	17334.2	9481.5	4955.6	5073.4	5198.2	5253.6	5212.0	5004.1	4941.7	4941.7	4955.6
40°	17833.2	8899.3	4851.6	5045.7	5024.9	5059.6	4754.6	4775.4	4775.4	4782.3	4747.7
42.5°	18276.8	8504.2	4768.5	4879.4	4914.0	4733.8	4546.7	4525.9	4574.4	4567.5	4539.7
45°	18436.2	8178.5	4650.6	4692.2	4719.9	4421.9	4331.8	4290.2	4345.7	4366.5	4394.2
47.5°	17826.3	7908.2	4519.0	4435.8	4380.3	4186.3	4068.4	3992.2	4061.5	4179.3	4207.1
50°	17043.1	7554.7	4311.0	4151.6	4033.8	3950.6	3867.4	3791.2	3839.7	3922.9	3902.1
52.5°	15885.6	7000.2	4047.7	3881.3	3680.3	3701.1	3624.9	3583.3	3611.0	3611.0	3590.2
55°	14236.1	5752.7	3604.1	3486.2	3319.9	3375.4	3389.2	3333.8	3278.3	3326.8	3285.3
57.5°	9717.1	4061.5	3215.9	3215.9	3049.6	3125.8	3118.9	2987.2	2855.5	2869.4	2841.7
60°	5621.0	3236.7	2966.4	2938.7	2765.4	2827.8	2841.7	2751.6	2550.6	2564.4	2536.7
62.5°	3195.1	2765.4	2592.2	2550.6	2515.9	2571.4	2571.4	2453.5	2280.3	2294.1	2266.4
65°	2716.9	2564.4	2314.9	2308.0	2294.1	2308.0	2252.5	2127.8	1975.3	1912.9	1919.9
67.5°	2467.4	2370.4	2127.8	2065.4	2023.8	2016.9	1912.9	1795.1	1725.8	1670.3	1663.4
70°	2162.4	2086.2	1906.0	1822.8	1781.2	1684.2	1580.2	1504.0	1407.0	1379.3	1407.0
72.5°	1711.9	1705.0	1635.7	1545.6	1455.5	1379.3	1289.1	1185.2	1095.1	1074.3	1025.8
75°	1185.2	1199.0	1212.9	1199.0	1122.8	1025.8	921.8	838.6	727.7	665.4	651.5
77.5°	776.3	797.1	817.8	790.1	741.6	651.5	582.2	478.2	395.1	346.5	339.6
80°	568.3	596.1	609.9	589.1	533.7	464.4	388.1	305.0	242.6	201.0	201.0
82.5°	436.6	464.4	478.2	443.6	388.1	332.7	277.2	214.9	166.3	131.7	124.8
85°	152.5	145.5	173.3	180.2	214.9	201.0	166.3	124.8	97.0	69.3	62.4
87.5°	41.6	41.6	48.5	48.5	41.6	34.7	34.7	34.7	27.7	20.8	20.8
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)