

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: P529846

Luminaire Tested: **GALN-SA5A-735-U-SL3-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529846
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-20)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA5A-735-U-SL3-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18048 lumens
Efficiency: N/A
Efficacy: 117.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

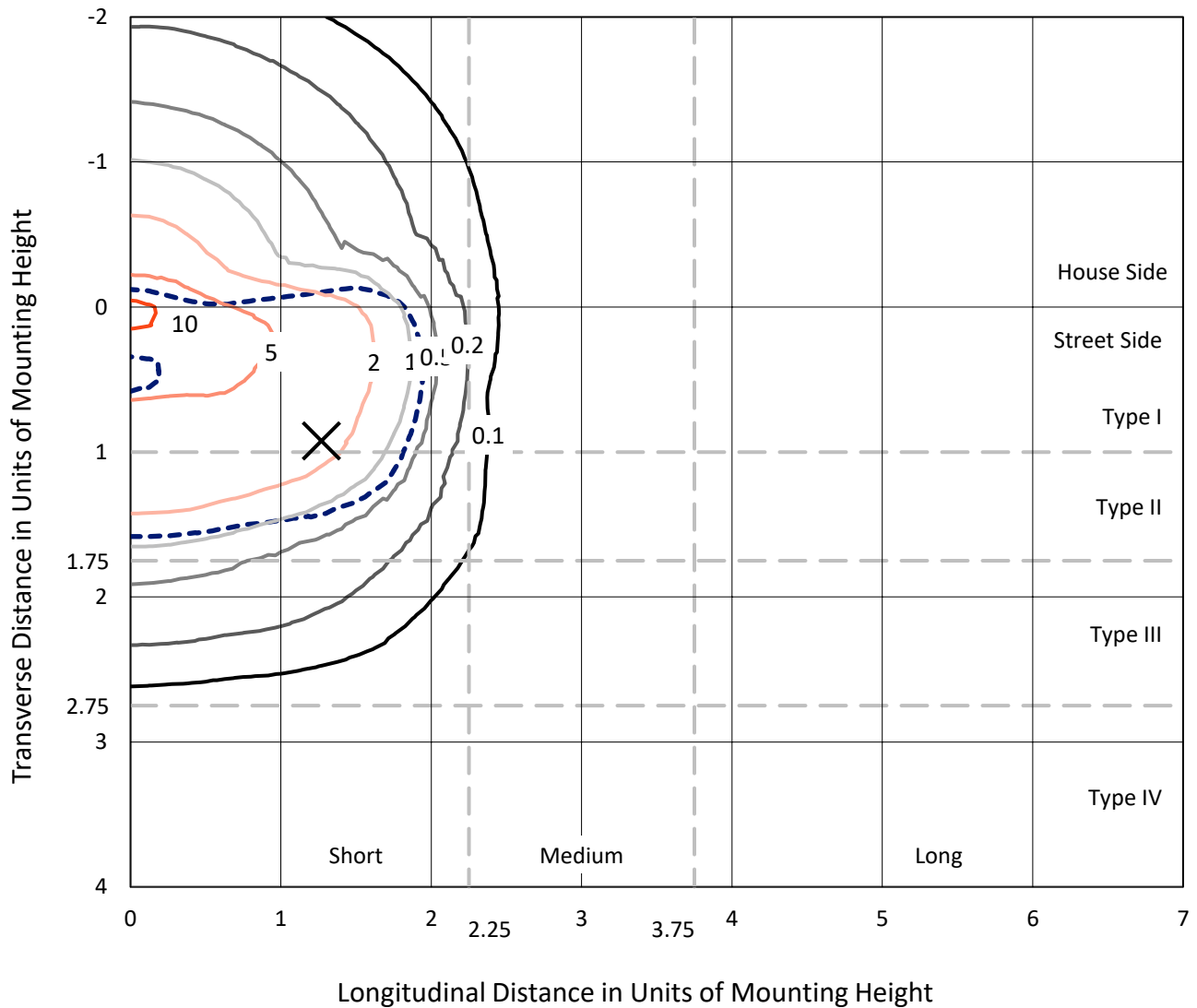
Input Watts (W): 154
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

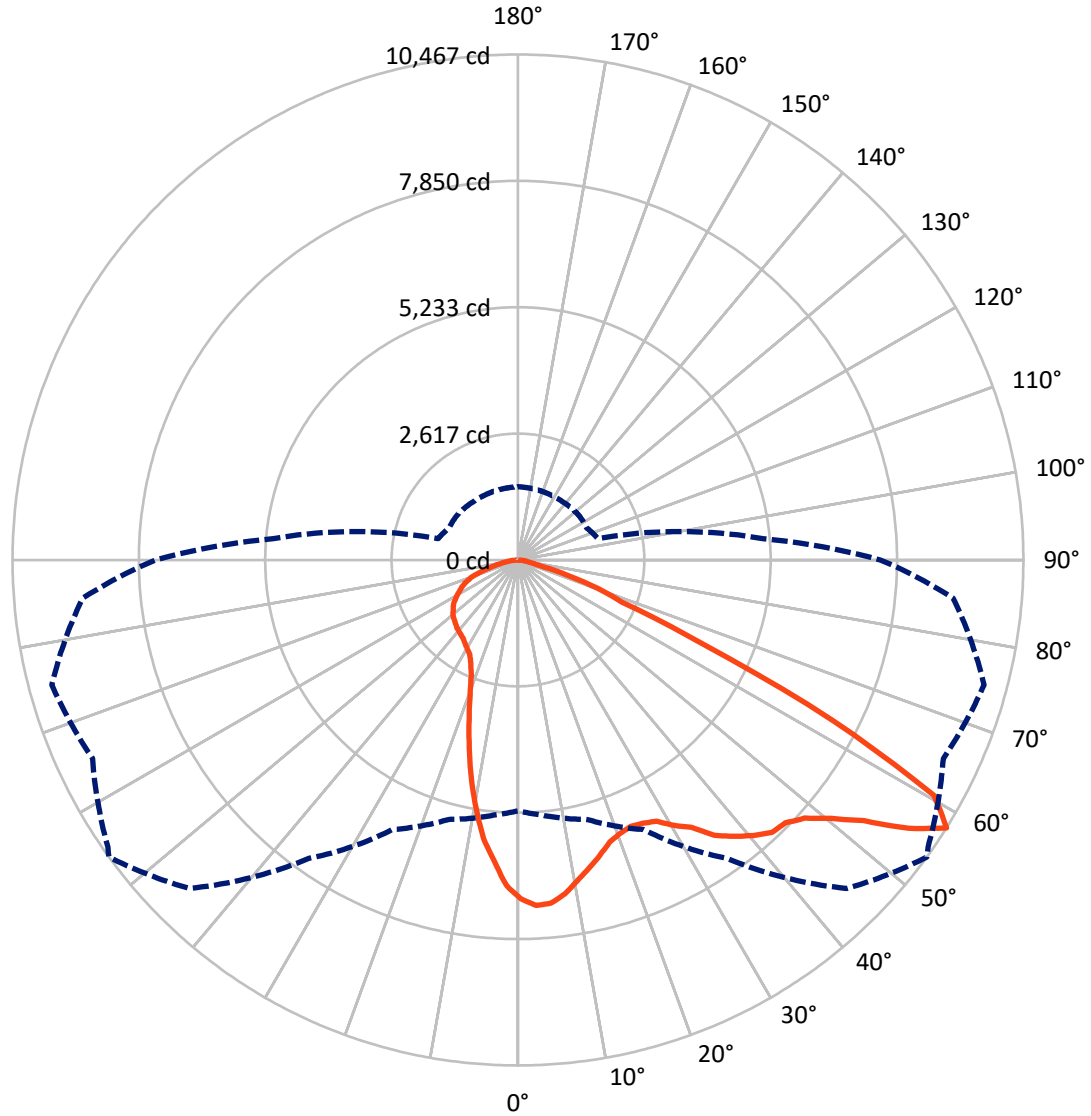
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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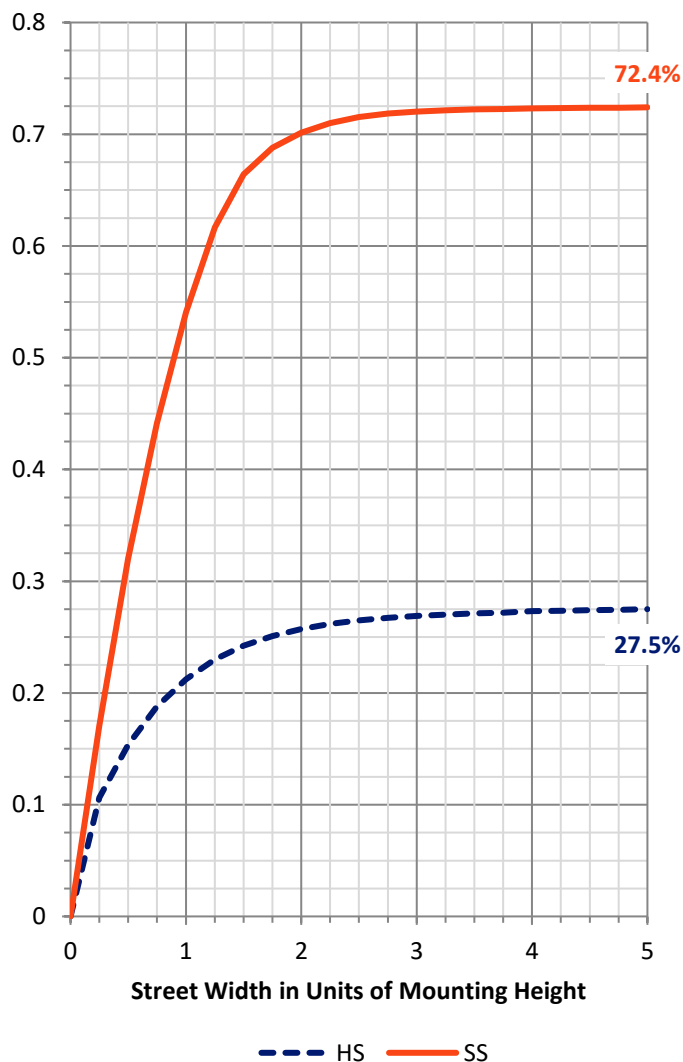
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4993.1	0.0	4993.1
	% Fixture	27.7	0.0	27.7
Street Side	Lumens	13054.9	0.0	13054.9
	% Fixture	72.3	0.0	72.3
Total	Lumens	18048.0	0.0	18048.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	605.0	3.4
10°-20°	1400.7	7.8
20°-30°	1968.1	10.9
30°-40°	2751.4	15.2
40°-50°	3724.8	20.6
50°-60°	4537.0	25.1
60°-70°	2363.1	13.1
70°-80°	605.5	3.4
80°-90°	92.4	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°	18048.0	100.0
0°-180°	18048.0	100.0

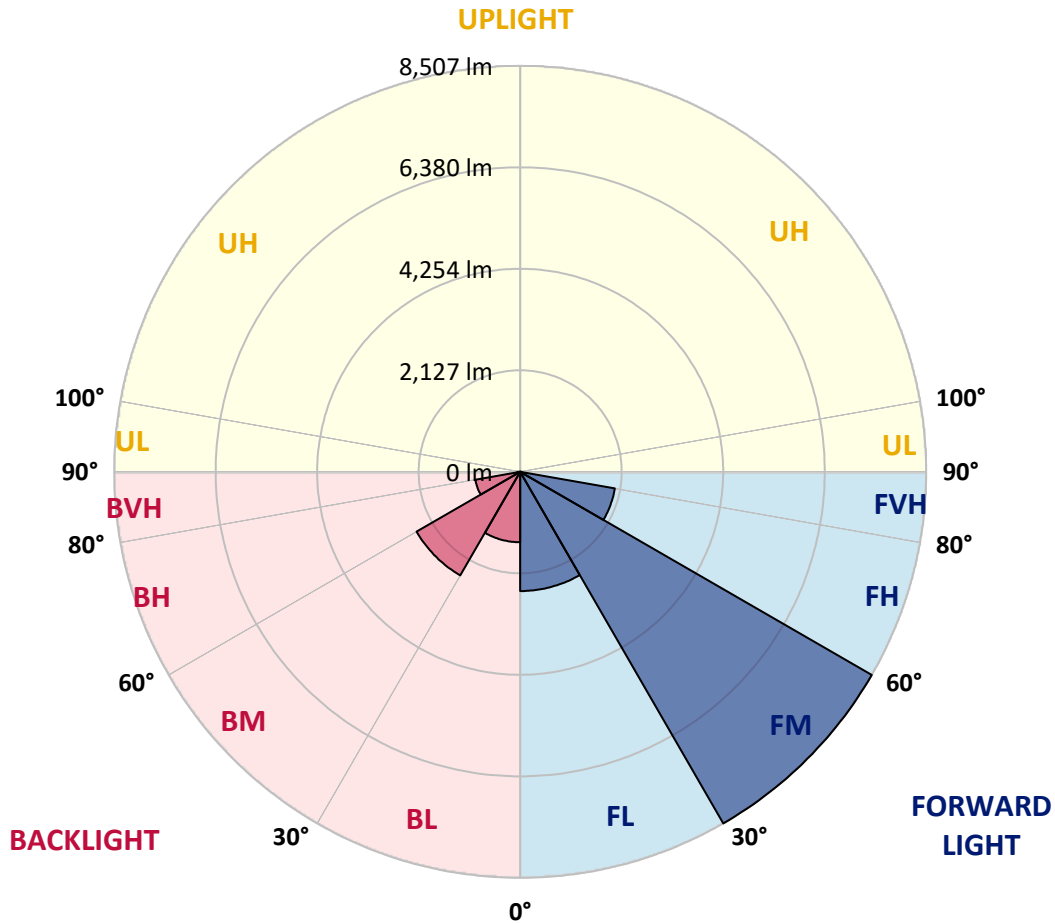


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2498.1	13.8			
FM (30°-60°)	8507.3	47.1			
FH (60°-80°)	2014.7	11.2			G2/5000
FVH (80°-90°)	34.9	0.2			G1/100
BL (0°-30°)	1475.7	8.2	B3/2500		
BM (30°-60°)	2506.0	13.9	B3/5000		
BH (60°-80°)	953.9	5.3	B2/1000		G2/1000
BVH (80°-90°)	57.5	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	7015.1	7015.1	7015.1	7015.1	7015.1	7015.1	7015.1	7015.1	7015.1	7015.1	7015.1
2.5°	7214.6	7186.7	7191.4	7228.5	7182.1	7163.5	7163.5	7073.0	7080.0	7017.4	7001.1
5°	7047.5	6982.6	7026.6	7082.3	7091.6	7110.2	7140.3	7117.1	7052.2	6984.9	6875.9
7.5°	6611.4	6669.4	6685.6	6725.1	6808.6	6885.1	6980.3	6915.3	6913.0	6845.7	6780.8
10°	6228.6	6193.8	6282.0	6340.0	6479.2	6606.8	6752.9	6746.0	6780.8	6704.2	6592.8
12.5°	5848.2	5820.4	5862.1	5994.3	6189.2	6374.8	6548.8	6483.8	6669.4	6655.5	6416.5
15°	5444.6	5465.4	5525.7	5648.7	5903.9	6126.6	6347.0	6349.3	6514.0	6569.7	6249.5
17.5°	5161.5	5138.3	5214.9	5398.2	5625.5	5892.3	6142.8	6193.8	6446.7	6479.2	6198.5
20°	4950.4	4982.9	5082.7	5175.5	5437.6	5760.0	6043.1	6061.6	6432.8	6520.9	6117.3
22.5°	4899.4	4880.8	4913.3	5064.1	5279.8	5630.1	5989.7	6059.3	6430.5	6507.0	5964.2
25°	4846.0	4906.4	4904.0	5054.8	5212.6	5525.7	6033.8	6110.3	6553.4	6578.9	5985.1
27.5°	4966.7	4959.7	5024.7	5036.3	5231.1	5553.6	6126.6	6184.6	6757.6	6736.7	6001.3
30°	5087.3	5052.5	5091.9	5228.8	5319.3	5713.6	6381.7	6377.1	7022.0	7008.1	6052.3
32.5°	5235.8	5219.5	5245.0	5365.7	5518.8	5927.1	6597.5	6734.4	7291.1	7379.3	6228.6
35°	5263.6	5330.9	5391.2	5553.6	5771.6	6272.7	7003.5	7117.1	7602.0	7878.0	6565.0
37.5°	5439.9	5465.4	5606.9	5894.6	6094.1	6734.4	7260.9	7332.9	7885.0	8198.1	6919.9
40°	5627.8	5658.0	5871.4	6173.0	6446.7	7035.9	7502.2	7525.4	7975.4	8444.0	7151.9
42.5°	5883.0	5910.8	6121.9	6500.1	6866.6	7293.4	7715.6	7741.1	7968.5	8727.1	7520.8
45°	6147.4	6214.7	6462.9	6892.1	7221.5	7595.0	7764.3	7868.7	8033.4	8979.9	7820.0
47.5°	6518.6	6581.2	6785.4	7205.3	7590.4	7859.5	7989.4	8091.4	8188.9	9200.3	8012.6
50°	6913.0	6924.6	7172.8	7553.2	7836.3	8158.7	8409.2	8444.0	8393.0	9455.5	8339.7
52.5°	7203.0	7240.1	7432.6	7803.8	8226.0	8622.7	8966.0	9003.1	8903.4	9550.6	8451.0
55°	6722.8	6701.9	7015.1	7509.2	8488.1	9314.0	9812.7	9840.6	9274.5	9845.2	8815.2
57.5°	5196.3	5296.1	5562.9	6159.0	7541.6	9620.2	10466.9	10367.2	9719.9	9993.7	9047.2
60°	3776.6	3753.4	3932.0	4331.1	5683.5	8290.9	9896.2	9998.3	9355.7	9007.8	7460.5
62.5°	3076.0	3043.6	3057.5	3071.4	3667.6	5502.5	7325.9	7323.6	7205.3	6474.5	5031.6
65°	2459.0	2535.5	2542.5	2646.9	2723.4	3287.1	4245.2	4472.6	3894.9	3194.4	2317.5
67.5°	1853.5	1825.7	1918.5	2289.6	2433.5	2373.1	2317.5	2343.0	1665.6	1201.7	1132.1
70°	1092.6	1081.0	1192.4	1596.0	2004.3	1886.0	1746.8	1749.1	1143.7	839.8	934.9
72.5°	598.5	596.2	619.4	809.6	1139.0	1183.1	1048.5	1081.0	682.0	679.7	730.7
75°	334.1	327.1	320.1	357.2	410.6	433.8	443.1	447.7	468.6	524.3	545.2
77.5°	122.9	118.3	118.3	136.9	174.0	218.1	276.1	280.7	331.7	380.4	401.3
80°	41.8	46.4	62.6	85.8	116.0	155.4	187.9	192.5	234.3	266.8	273.7
82.5°	25.5	27.8	41.8	60.3	83.5	109.0	139.2	141.5	174.0	194.9	204.1
85°	11.6	13.9	23.2	37.1	53.4	71.9	74.2	74.2	71.9	74.2	69.6
87.5°	0.0	0.0	4.6	4.6	4.6	7.0	9.3	7.0	11.6	13.9	13.9
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°	7015.1	7015.1	7015.1	7015.1	7015.1	7015.1	7015.1	7015.1	7015.1	7015.1	7015.1
2.5°	6952.4	6926.9	6848.0	6778.4	6757.6	6664.8	6527.9	6544.1	6444.4	6490.8	6442.1
5°	6857.3	6771.5	6569.7	6483.8	6258.8	6156.7	6087.1	5913.1	5832.0	5815.7	5746.1
7.5°	6613.7	6560.4	6307.5	6075.5	5836.6	5632.5	5370.3	5191.7	5064.1	5029.3	4927.2
10°	6421.2	6302.9	5952.6	5600.0	5259.0	4904.0	4563.0	4296.3	4166.3	4015.6	3964.5
12.5°	6231.0	6052.3	5579.1	5126.7	4686.0	4238.3	3825.3	3500.6	3217.6	3150.3	3127.1
15°	6112.7	5801.8	5245.0	4699.9	4073.6	3489.0	3076.0	2862.6	2688.6	2616.7	2667.8
17.5°	5957.2	5595.3	4924.9	4198.8	3509.8	2971.7	2626.0	2493.8	2431.1	2438.1	2417.2
20°	5762.4	5400.5	4505.0	3744.1	3006.5	2577.3	2380.1	2331.4	2340.7	2356.9	2349.9
22.5°	5623.2	5163.9	4201.1	3280.2	2598.2	2359.2	2278.0	2243.2	2273.4	2287.3	2275.7
25°	5516.5	4962.0	3832.3	2869.6	2361.5	2236.3	2199.2	2196.8	2243.2	2261.8	2250.2
27.5°	5419.0	4774.1	3465.8	2556.4	2203.8	2141.2	2129.6	2157.4	2187.6	2206.1	2222.4
30°	5361.0	4630.3	3122.4	2294.3	2124.9	2094.8	2073.9	2099.4	2115.7	2134.2	2124.9
32.5°	5416.7	4528.2	2790.7	2145.8	2060.0	2029.8	2057.7	2041.4	2069.3	2085.5	2060.0
35°	5590.7	4437.8	2554.1	2066.9	1985.7	1997.3	2002.0	1995.0	2006.6	1992.7	2022.9
37.5°	5762.4	4405.3	2336.0	1999.7	1950.9	1950.9	1946.3	1932.4	1955.6	1950.9	1964.9
40°	5980.4	4426.2	2150.4	1927.7	1918.5	1913.8	1895.3	1893.0	1883.7	1886.0	1890.6
42.5°	6170.6	4472.6	2043.7	1881.4	1888.3	1897.6	1862.8	1835.0	1846.6	1823.4	1823.4
45°	6372.5	4514.3	1948.6	1848.9	1841.9	1839.6	1811.8	1795.5	1786.2	1788.6	1809.4
47.5°	6690.3	4574.6	1876.7	1804.8	1809.4	1774.6	1767.7	1746.8	1756.1	1770.0	1772.3
50°	6915.3	4702.2	1821.0	1753.8	1770.0	1746.8	1705.0	1695.8	1695.8	1719.0	1714.3
52.5°	7073.0	4880.8	1767.7	1698.1	1705.0	1686.5	1672.6	1651.7	1637.8	1670.3	1686.5
55°	7555.6	5177.8	1753.8	1651.7	1649.4	1630.8	1605.3	1584.4	1577.5	1582.1	1614.6
57.5°	7509.2	5085.0	1709.7	1570.5	1565.9	1540.3	1514.8	1507.9	1505.5	1510.2	1519.5
60°	6096.4	3755.7	1526.4	1477.7	1470.7	1466.1	1440.6	1412.8	1398.8	1412.8	1401.2
62.5°	4034.1	2514.7	1345.5	1366.4	1371.0	1359.4	1317.6	1289.8	1294.4	1310.7	1285.2
65°	1981.1	1477.7	1220.2	1275.9	1280.5	1248.0	1208.6	1176.1	1159.9	1173.8	1162.2
67.5°	1132.1	1129.7	1118.1	1176.1	1173.8	1141.3	1078.7	1050.9	1023.0	1027.7	1020.7
70°	960.4	979.0	1002.2	1036.9	1034.6	997.5	923.3	902.4	863.0	858.3	846.7
72.5°	756.3	788.7	839.8	865.3	844.4	798.0	749.3	714.5	679.7	658.8	665.8
75°	561.4	607.8	635.6	651.9	619.4	593.9	554.4	512.7	470.9	452.4	445.4
77.5°	408.3	422.2	447.7	459.3	438.4	412.9	389.7	348.0	308.5	283.0	276.1
80°	285.3	294.6	313.2	313.2	313.2	301.6	271.4	229.7	204.1	180.9	176.3
82.5°	199.5	208.8	227.3	218.1	215.7	201.8	183.3	150.8	122.9	106.7	102.1
85°	69.6	76.6	92.8	111.4	118.3	116.0	104.4	83.5	65.0	53.4	48.7
87.5°	16.2	16.2	18.6	16.2	16.2	18.6	16.2	16.2	16.2	11.6	9.3
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)