

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: P531822

Luminaire Tested: **GALN-SA7A-827-U-SL3-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P531822
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-SA7A-827-U-SL3-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 2700K, 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: 19809 lumens
Efficiency: N/A
Efficacy: 92.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

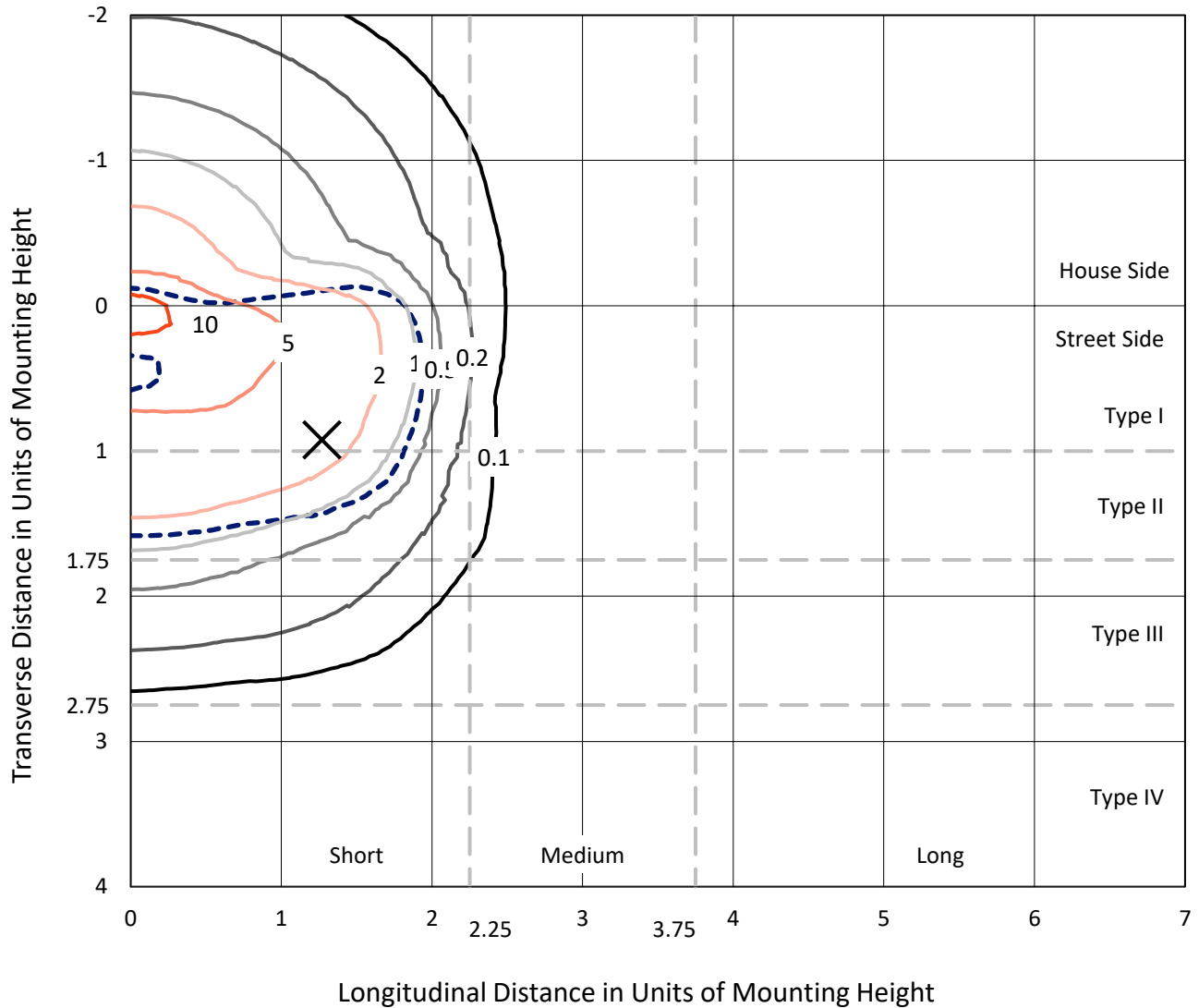
Input Watts (W): 215
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P531822
 CATALOG NUMBER: GALN-SA7A-827-U-SL3-GRSWH

Iso-Footcandle Lines of Horizontal Illumination

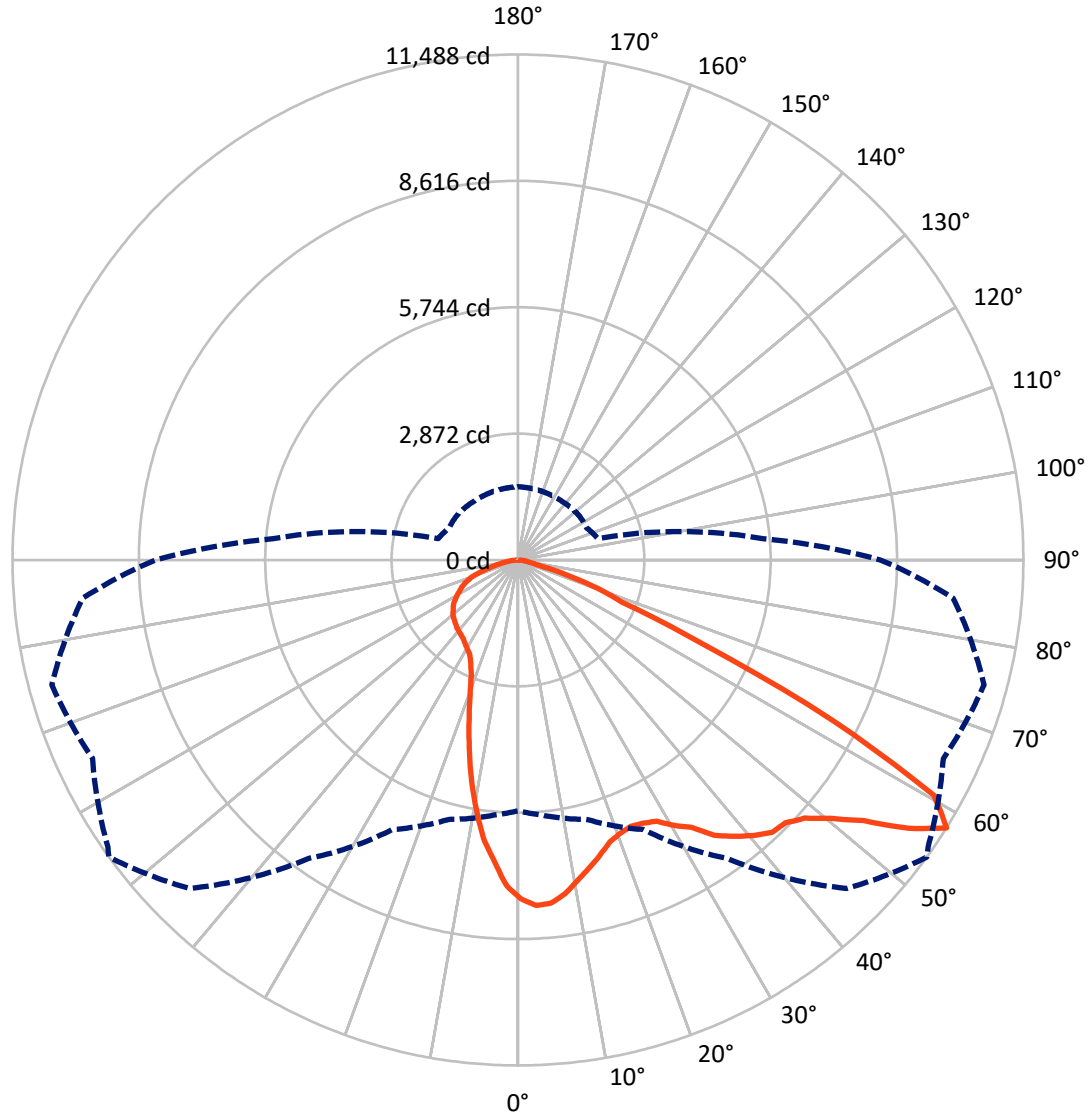
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.3 fc
 Type II - Short - N/A

REPORT NUMBER: P531822
CATALOG NUMBER: GALN-SA7A-827-U-SL3-GRSWH

Luminous Intensity Polar Plot



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

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 CATALOG NUMBER: GALN-SA7A-827-U-SL3-GRSWH

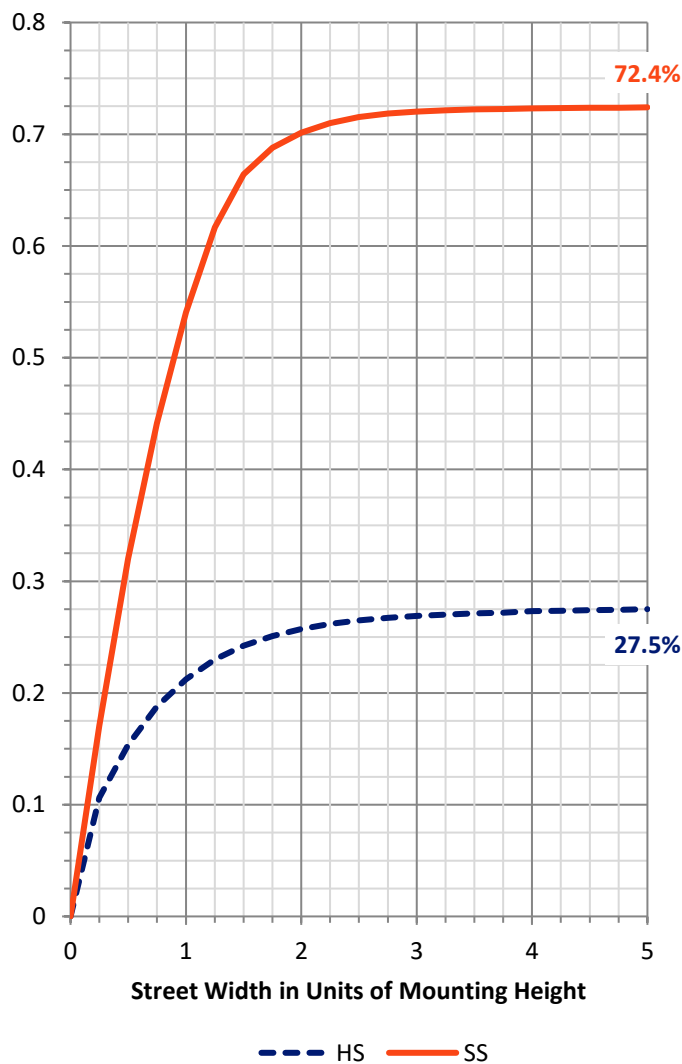
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5480.3	0.0	5480.3
	% Fixture	27.7	0.0	27.7
Street Side	Lumens	14328.7	0.0	14328.7
	% Fixture	72.3	0.0	72.3
Total	Lumens	19809.0	0.0	19809.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	664.0	3.4
10°-20°	1537.4	7.8
20°-30°	2160.1	10.9
30°-40°	3019.8	15.2
40°-50°	4088.3	20.6
50°-60°	4979.7	25.1
60°-70°	2593.6	13.1
70°-80°	664.6	3.4
80°-90°	101.4	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°	19809.0	100.0
0°-180°	19809.0	100.0

Coefficient of Utilization



REPORT NUMBER: P531822

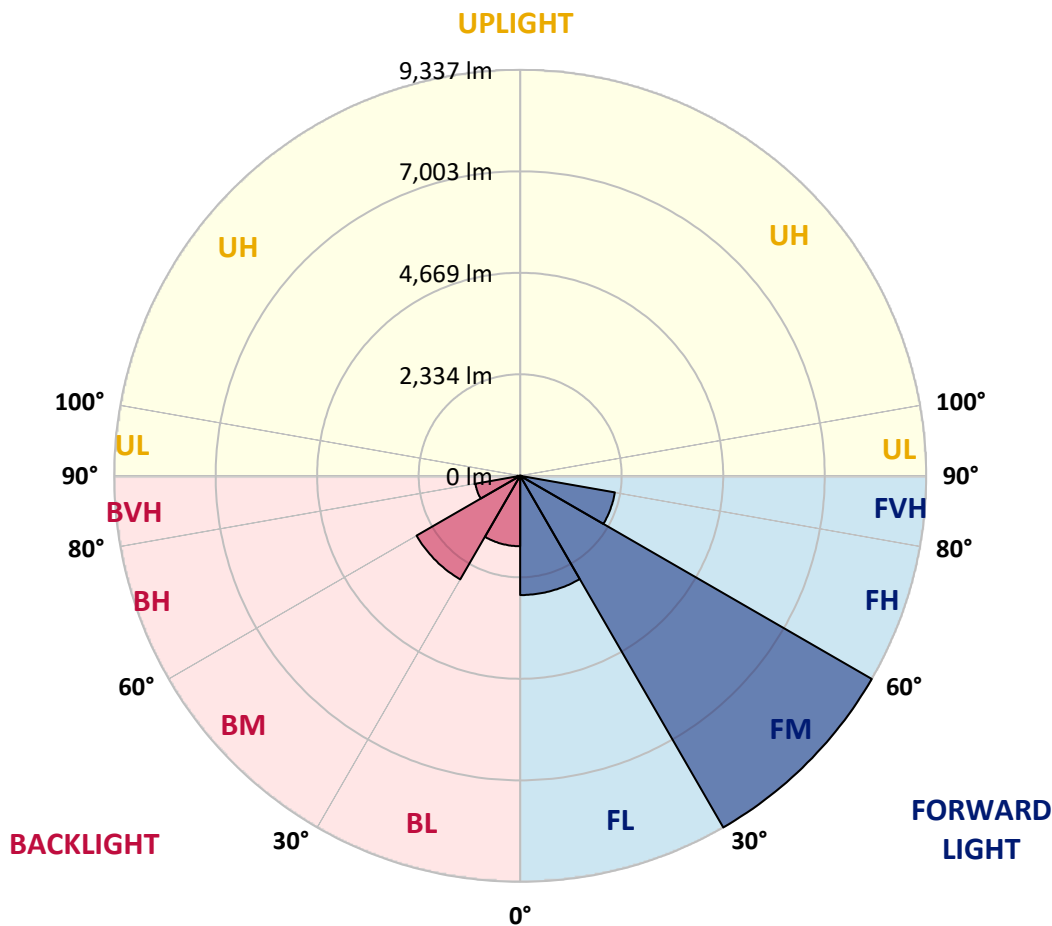
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2741.8	13.8			
FM (30°-60°)	9337.3	47.1			
FH (60°-80°)	2211.2	11.2			G2/5000
FVH (80°-90°)	38.3	0.2			G1/100
BL (0°-30°)	1619.7	8.2	B3/2500		
BM (30°-60°)	2750.5	13.9	B3/5000		
BH (60°-80°)	1047.0	5.3	B3/2500		G3/2500
BVH (80°-90°)	63.1	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-G3

Type II Short





REPORT NUMBER: P531822

CATALOG NUMBER: GALN-SA7A-827-U-SL3-GRSWH

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	7699.5	7699.5	7699.5	7699.5	7699.5	7699.5	7699.5	7699.5	7699.5	7699.5	7699.5
2.5°	7918.5	7887.9	7893.0	7933.8	7882.9	7862.5	7862.5	7763.2	7770.8	7702.1	7684.3
5°	7735.2	7663.9	7712.3	7773.4	7783.6	7803.9	7837.0	7811.6	7740.3	7666.4	7546.8
7.5°	7256.5	7320.2	7338.0	7381.3	7472.9	7556.9	7661.3	7590.0	7587.5	7513.7	7442.4
10°	6836.4	6798.2	6895.0	6958.6	7111.4	7251.4	7411.8	7404.2	7442.4	7358.3	7236.1
12.5°	6418.8	6388.3	6434.1	6579.2	6793.1	6996.8	7187.8	7116.5	7320.2	7304.9	7042.6
15°	5975.8	5998.7	6064.9	6199.9	6479.9	6724.4	6966.2	6968.8	7149.6	7210.7	6859.3
17.5°	5665.2	5639.7	5723.7	5924.9	6174.4	6467.2	6742.2	6798.2	7075.7	7111.4	6803.3
20°	5433.5	5469.1	5578.6	5680.4	5968.2	6322.1	6632.7	6653.1	7060.4	7157.2	6714.2
22.5°	5377.5	5357.1	5392.7	5558.2	5795.0	6179.5	6574.1	6650.5	7057.9	7141.9	6546.1
25°	5318.9	5385.1	5382.5	5548.0	5721.2	6064.9	6622.5	6706.5	7192.8	7220.9	6569.0
27.5°	5451.3	5443.7	5514.9	5527.7	5741.5	6095.5	6724.4	6788.0	7416.9	7394.0	6586.9
30°	5583.7	5545.5	5588.8	5739.0	5838.3	6271.1	7004.4	6999.3	7707.2	7691.9	6642.9
32.5°	5746.6	5728.8	5756.8	5889.2	6057.3	6505.4	7241.2	7391.4	8002.5	8099.3	6836.4
35°	5777.2	5851.0	5917.2	6095.5	6334.8	6884.8	7686.8	7811.6	8343.7	8646.7	7205.6
37.5°	5970.7	5998.7	6154.0	6469.7	6688.7	7391.4	7969.4	8048.4	8654.3	8998.1	7595.1
40°	6176.9	6210.0	6444.3	6775.3	7075.7	7722.4	8234.2	8259.7	8753.6	9268.0	7849.8
42.5°	6457.0	6487.6	6719.3	7134.3	7536.6	8005.1	8468.5	8496.5	8746.0	9578.6	8254.6
45°	6747.3	6821.1	7093.5	7564.6	7926.1	8336.1	8521.9	8636.5	8817.3	9856.1	8583.0
47.5°	7154.7	7223.4	7447.5	7908.3	8331.0	8626.3	8768.9	8880.9	8987.9	10098.0	8794.4
50°	7587.5	7600.2	7872.7	8290.2	8600.9	8954.8	9229.8	9268.0	9211.9	10378.1	9153.4
52.5°	7905.8	7946.5	8157.8	8565.2	9028.6	9464.0	9840.8	9881.6	9772.1	10482.5	9275.6
55°	7378.7	7355.8	7699.5	8241.9	9316.3	10222.8	10770.2	10800.7	10179.5	10805.8	9675.3
57.5°	5703.4	5812.8	6105.6	6760.0	8277.5	10558.8	11488.2	11378.7	10668.3	10968.8	9930.0
60°	4145.1	4119.7	4315.7	4753.6	6238.0	9099.9	10861.8	10973.9	10268.6	9886.7	8188.4
62.5°	3376.2	3340.5	3355.8	3371.1	4025.4	6039.4	8040.7	8038.2	7908.3	7106.3	5522.6
65°	2698.9	2782.9	2790.6	2905.1	2989.2	3607.9	4659.4	4909.0	4275.0	3506.0	2543.6
67.5°	2034.4	2003.8	2105.7	2513.0	2670.9	2604.7	2543.6	2571.6	1828.1	1318.9	1242.5
70°	1199.2	1186.5	1308.7	1751.7	2199.9	2070.0	1917.2	1919.8	1255.2	921.7	1026.1
72.5°	656.9	654.4	679.8	888.6	1250.2	1298.5	1150.9	1186.5	748.6	746.0	802.0
75°	366.6	359.0	351.4	392.1	450.7	476.1	486.3	491.4	514.3	575.4	598.3
77.5°	134.9	129.9	129.9	150.2	191.0	239.3	303.0	308.1	364.1	417.6	440.5
80°	45.8	50.9	68.7	94.2	127.3	170.6	206.2	211.3	257.2	292.8	300.4
82.5°	28.0	30.6	45.8	66.2	91.7	119.7	152.8	155.3	191.0	213.9	224.1
85°	12.7	15.3	25.5	40.7	58.6	78.9	81.5	81.5	78.9	81.5	76.4
87.5°	0.0	0.0	5.1	5.1	5.1	7.6	10.2	7.6	12.7	15.3	15.3
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: P531822

CATALOG NUMBER: GALN-SA7A-827-U-SL3-GRSWH

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	7699.5	7699.5	7699.5	7699.5	7699.5	7699.5	7699.5	7699.5	7699.5	7699.5	7699.5
2.5°	7630.8	7602.8	7516.2	7439.8	7416.9	7315.1	7164.8	7182.7	7073.2	7124.1	7070.6
5°	7526.4	7432.2	7210.7	7116.5	6869.5	6757.5	6681.1	6490.1	6401.0	6383.2	6306.8
7.5°	7259.0	7200.5	6923.0	6668.3	6406.1	6182.0	5894.3	5698.3	5558.2	5520.0	5408.0
10°	7047.7	6917.9	6533.4	6146.4	5772.1	5382.5	5008.3	4715.5	4572.9	4407.4	4351.4
12.5°	6838.9	6642.9	6123.5	5627.0	5143.2	4651.8	4198.6	3842.1	3531.5	3457.7	3432.2
15°	6709.1	6367.9	5756.8	5158.5	4471.0	3829.4	3376.2	3141.9	2951.0	2872.0	2928.1
17.5°	6538.5	6141.3	5405.5	4608.5	3852.3	3261.6	2882.2	2737.1	2668.4	2676.0	2653.1
20°	6324.6	5927.4	4944.6	4109.5	3299.8	2828.8	2612.3	2558.9	2569.1	2586.9	2579.2
22.5°	6171.8	5667.7	4611.1	3600.2	2851.7	2589.4	2500.3	2462.1	2495.2	2510.5	2497.8
25°	6054.7	5446.2	4206.2	3149.6	2592.0	2454.5	2413.7	2411.2	2462.1	2482.5	2469.8
27.5°	5947.8	5240.0	3803.9	2805.8	2418.8	2350.1	2337.4	2367.9	2401.0	2421.4	2439.2
30°	5884.1	5082.1	3427.1	2518.1	2332.3	2299.2	2276.3	2304.3	2322.1	2342.5	2332.3
32.5°	5945.2	4970.1	3063.0	2355.2	2261.0	2227.9	2258.4	2240.6	2271.2	2289.0	2261.0
35°	6136.2	4870.8	2803.3	2268.6	2179.5	2192.2	2197.3	2189.7	2202.4	2187.1	2220.2
37.5°	6324.6	4835.1	2564.0	2194.8	2141.3	2141.3	2136.2	2120.9	2146.4	2141.3	2156.6
40°	6564.0	4858.0	2360.3	2115.8	2105.7	2100.6	2080.2	2077.7	2067.5	2070.0	2075.1
42.5°	6772.7	4909.0	2243.2	2064.9	2072.6	2082.7	2044.6	2014.0	2026.7	2001.3	2001.3
45°	6994.3	4954.8	2138.8	2029.3	2021.6	2019.1	1988.5	1970.7	1960.5	1963.1	1986.0
47.5°	7343.1	5021.0	2059.8	1980.9	1986.0	1947.8	1940.2	1917.2	1927.4	1942.7	1945.3
50°	7590.0	5161.0	1998.7	1924.9	1942.7	1917.2	1871.4	1861.2	1861.2	1886.7	1881.6
52.5°	7763.2	5357.1	1940.2	1863.8	1871.4	1851.0	1835.8	1812.9	1797.6	1833.2	1851.0
55°	8292.8	5683.0	1924.9	1812.9	1810.3	1789.9	1761.9	1739.0	1731.4	1736.5	1772.1
57.5°	8241.9	5581.1	1876.5	1723.7	1718.6	1690.6	1662.6	1655.0	1652.4	1657.5	1667.7
60°	6691.3	4122.2	1675.4	1621.9	1614.3	1609.2	1581.2	1550.6	1535.3	1550.6	1537.9
62.5°	4427.7	2760.0	1476.8	1499.7	1504.8	1492.0	1446.2	1415.7	1420.7	1438.6	1410.6
65°	2174.4	1621.9	1339.3	1400.4	1405.5	1369.8	1326.5	1290.9	1273.1	1288.3	1275.6
67.5°	1242.5	1240.0	1227.2	1290.9	1288.3	1252.7	1184.0	1153.4	1122.8	1127.9	1120.3
70°	1054.1	1074.5	1099.9	1138.1	1135.6	1094.8	1013.4	990.4	947.2	942.1	929.3
72.5°	830.0	865.7	921.7	949.7	926.8	875.9	822.4	784.2	746.0	723.1	730.7
75°	616.2	667.1	697.6	715.5	679.8	651.8	608.5	562.7	516.9	496.5	488.9
77.5°	448.1	463.4	491.4	504.1	481.2	453.2	427.8	381.9	338.6	310.6	303.0
80°	313.2	323.4	343.7	343.7	343.7	331.0	297.9	252.1	224.1	198.6	193.5
82.5°	219.0	229.2	249.5	239.3	236.8	221.5	201.1	165.5	134.9	117.1	112.0
85°	76.4	84.0	101.8	122.2	129.9	127.3	114.6	91.7	71.3	58.6	53.5
87.5°	17.8	17.8	20.4	17.8	17.8	20.4	17.8	17.8	17.8	12.7	10.2
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)