

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: P530736

Luminaire Tested: **GALN-SA6A-727-U-T2-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P530736
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-SA6A-727-U-T2-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 2700K, 615mA 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: 19023 lumens
Efficiency: N/A
Efficacy: 104.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

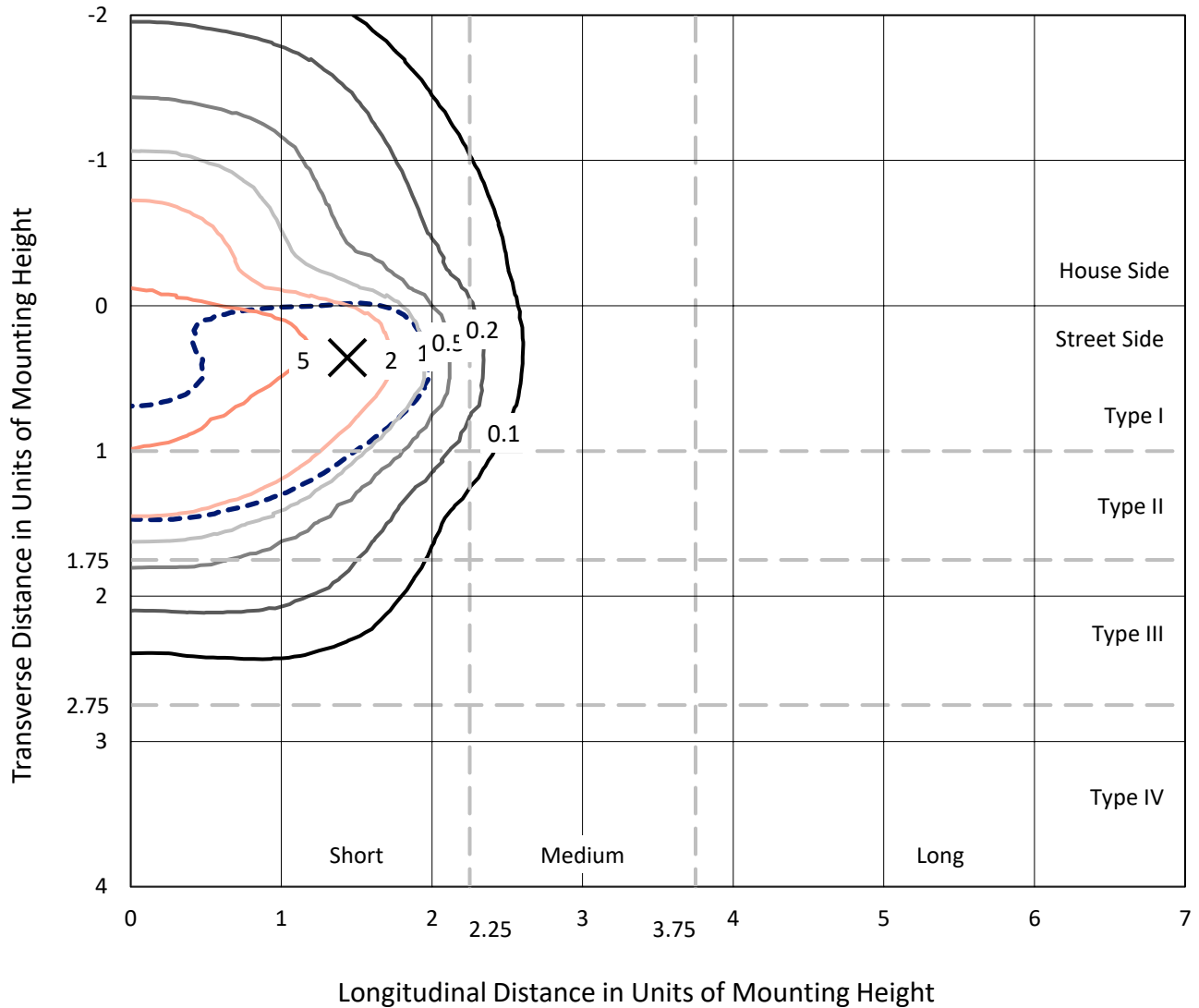
Input Watts (W): 182
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P530736
 CATALOG NUMBER: GALN-SA6A-727-U-T2-GRSWH

Iso-Footcandle Lines of Horizontal Illumination

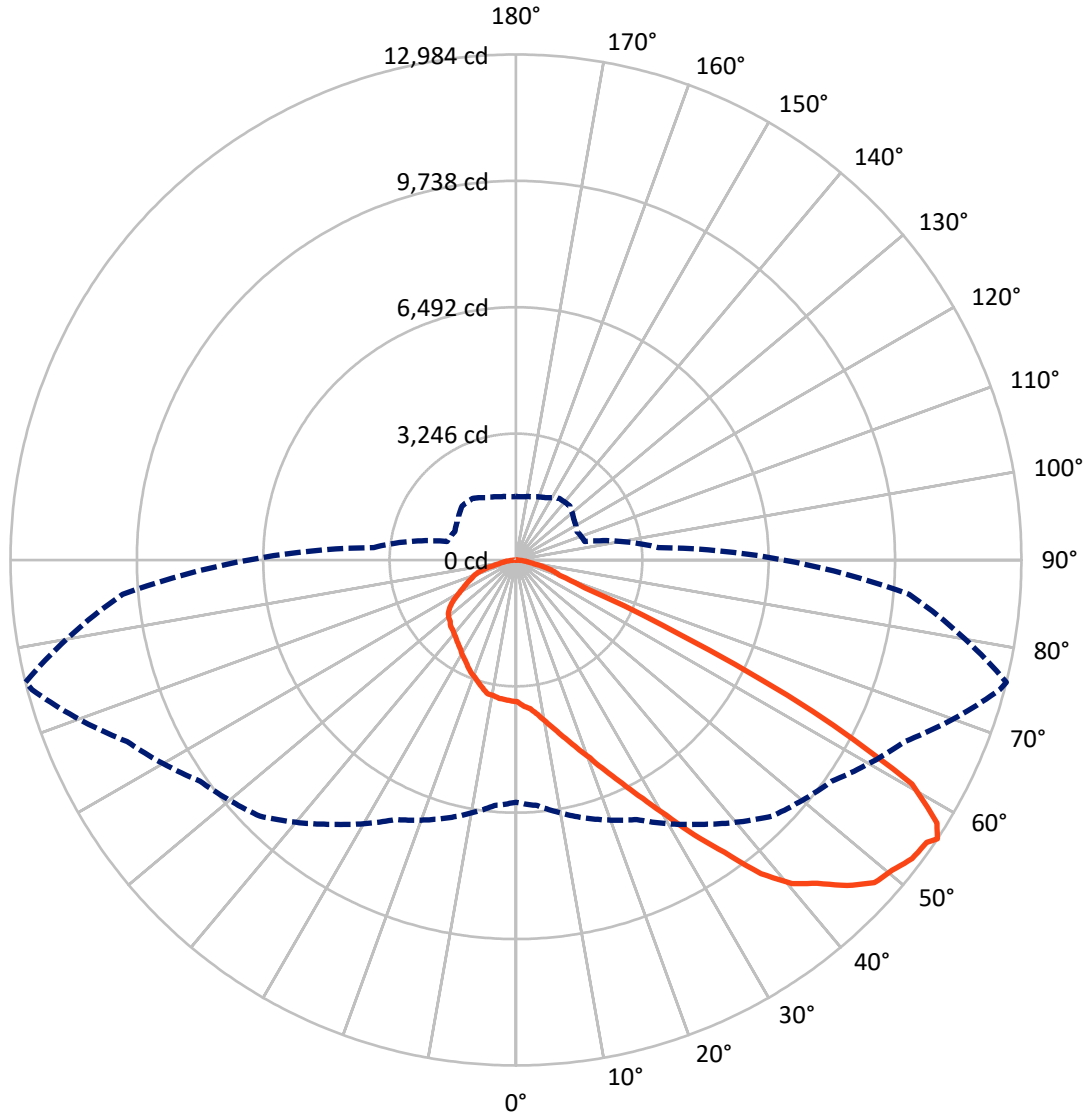
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.1 fc
 Type II - Short - N/A

REPORT NUMBER: P530736
CATALOG NUMBER: GALN-SA6A-727-U-T2-GRSWH

Luminous Intensity Polar Plot



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

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 CATALOG NUMBER: GALN-SA6A-727-U-T2-GRSWH

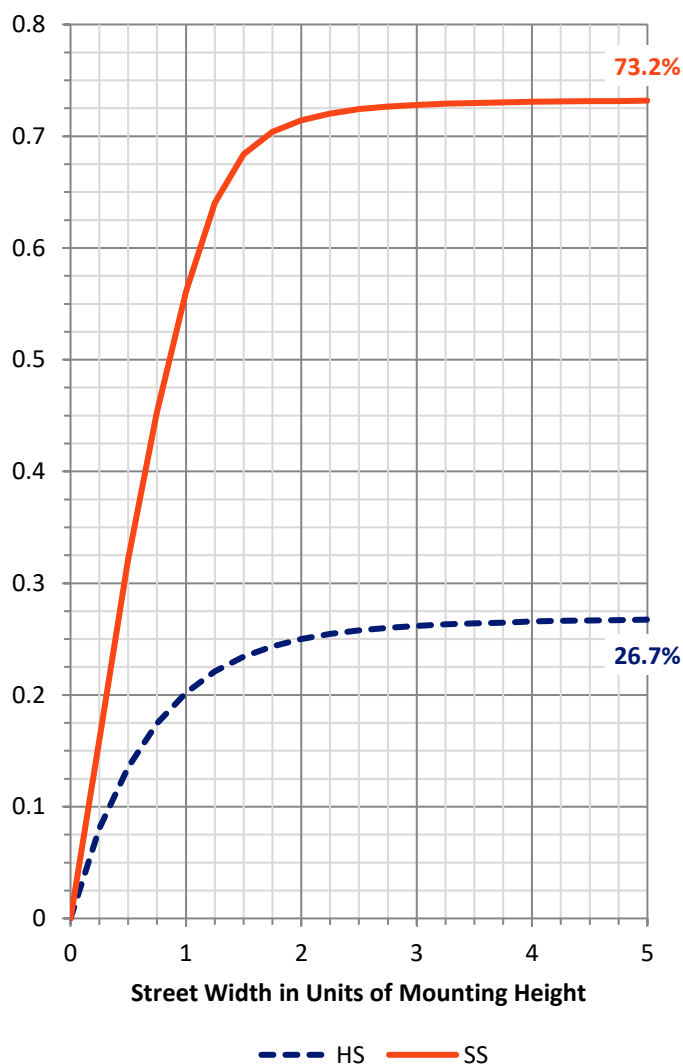
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5114.7	0.0	5114.7
	% Fixture	26.9	0.0	26.9
Street Side	Lumens	13908.3	0.0	13908.3
	% Fixture	73.1	0.0	73.1
Total	Lumens	19023.0	0.0	19023.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	361.0	1.9
10°-20°	1133.9	6.0
20°-30°	1983.0	10.4
30°-40°	3104.8	16.3
40°-50°	4516.7	23.7
50°-60°	4964.1	26.1
60°-70°	2215.8	11.6
70°-80°	640.0	3.4
80°-90°	103.8	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°	19023.0	100.0
0°-180°	19023.0	100.0

Coefficient of Utilization



REPORT NUMBER: P530736

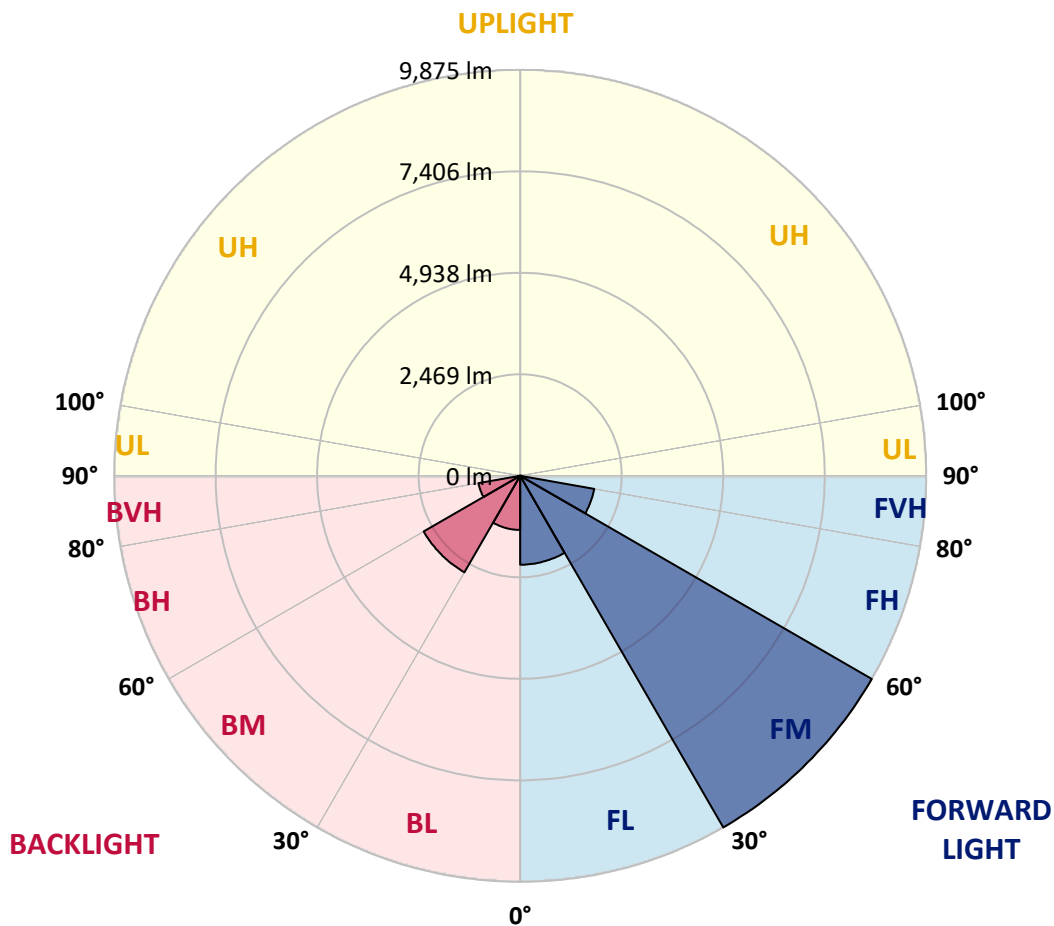
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2161.8	11.4			
FM (30°-60°)	9875.2	51.9			
FH (60°-80°)	1826.7	9.6			G2/5000
FVH (80°-90°)	44.7	0.2			G1/100
BL (0°-30°)	1316.1	6.9	B3/2500		
BM (30°-60°)	2710.4	14.2	B3/5000		
BH (60°-80°)	1029.1	5.4	B3/2500		G3/2500
BVH (80°-90°)	59.1	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: P530736

CATALOG NUMBER: GALN-SA6A-727-U-T2-GRSWH

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	3639.8	3639.8	3639.8	3639.8	3639.8	3639.8	3639.8	3639.8	3639.8	3639.8	3639.8
2.5°	4009.7	3945.6	3940.7	3923.4	3933.3	3888.9	3842.0	3780.4	3716.3	3755.7	3662.0
5°	4290.8	4204.5	4239.0	4179.9	4187.3	4128.1	4031.9	3960.4	3881.5	3834.6	3768.0
7.5°	4389.5	4396.9	4421.5	4411.7	4362.3	4362.3	4298.2	4172.5	4034.4	4007.2	3896.3
10°	4522.6	4525.1	4498.0	4505.4	4574.4	4542.4	4485.6	4431.4	4253.8	4221.8	4024.5
12.5°	4569.5	4525.1	4569.5	4608.9	4690.3	4734.7	4722.4	4682.9	4493.0	4470.8	4182.3
15°	4576.9	4549.8	4586.7	4675.5	4747.0	4934.5	5028.2	5001.0	4749.5	4752.0	4359.9
17.5°	4542.4	4579.4	4594.1	4670.6	4835.8	5010.9	5282.2	5319.1	5112.0	5079.9	4584.3
20°	4589.2	4562.1	4581.8	4650.9	4870.3	5144.1	5499.2	5743.3	5452.3	5430.1	4816.1
22.5°	4769.2	4732.2	4727.3	4771.7	4929.5	5213.1	5728.5	6167.5	5866.6	5878.9	5104.6
25°	4909.8	4929.5	4912.3	4909.8	5008.4	5316.7	6031.8	6673.0	6428.8	6357.3	5444.9
27.5°	5151.5	5198.3	5163.8	5210.6	5188.5	5472.0	6248.8	7232.8	7035.5	6939.3	5753.2
30°	5486.8	5511.5	5479.4	5479.4	5412.9	5689.0	6446.1	7817.2	7735.8	7605.1	6115.7
32.5°	5928.2	5965.2	5901.1	5864.1	5854.3	6012.1	6801.2	8394.2	8532.3	8421.4	6596.5
35°	6512.7	6490.5	6414.0	6379.5	6246.4	6507.8	7328.9	9057.6	9420.1	9222.8	7178.5
37.5°	7028.1	6993.6	6988.6	6796.3	6828.3	7042.9	7777.7	9560.7	10280.7	10224.0	7792.5
40°	7509.0	7541.0	7592.8	7484.3	7435.0	7671.7	8300.5	9945.4	10949.0	10926.8	8266.0
42.5°	8024.3	7994.8	8086.0	7994.8	7920.8	8256.1	8867.7	10211.7	11535.9	11353.4	8761.7
45°	8771.5	8677.8	8709.9	8717.3	8663.0	8786.3	9102.0	10404.0	11947.7	11928.0	9124.2
47.5°	9395.4	9397.9	9343.7	9301.7	9136.5	9259.8	9363.4	10524.9	12421.2	12389.2	9264.7
50°	9627.2	9595.2	9753.0	9844.2	9854.1	9602.6	9568.1	10591.4	12670.3	12529.7	9405.3
52.5°	8793.7	8823.3	9072.4	9614.9	9928.1	9955.2	9807.3	10729.5	12771.4	12741.8	9518.7
55°	7077.4	7220.4	7629.8	8256.1	8998.4	9814.7	10066.2	10872.6	12825.6	12801.0	10021.8
56°	6221.7	6332.7	6865.3	7356.1	8288.2	9304.2	9903.4	11025.5	12867.6	12983.5	10140.2
57.5°	5008.4	5136.7	5518.9	6076.2	7176.0	8332.6	9454.6	10838.0	12704.8	12749.2	10226.5
60°	3131.8	3144.1	3602.8	3970.2	4744.6	5874.0	7215.5	9430.0	11757.9	11693.7	9185.8
62.5°	2054.2	2056.6	2473.4	2774.2	3126.9	3385.8	4246.4	6253.8	8675.4	8561.9	6539.8
65°	1442.6	1474.7	1797.7	2199.7	2342.7	2207.1	2179.9	3297.0	4845.7	4682.9	3514.0
67.5°	1055.4	1057.9	1344.0	1775.5	1982.7	1679.3	1363.7	1610.3	1918.5	1913.6	1627.6
70°	697.9	727.5	946.9	1326.7	1563.4	1348.9	1114.6	1151.6	1220.7	1220.7	1210.8
72.5°	406.9	434.0	579.5	840.9	877.9	843.4	882.8	986.4	1030.8	1028.3	1016.0
75°	231.8	244.1	276.2	350.2	436.5	515.4	648.6	747.2	791.6	818.7	786.7
77.5°	135.6	143.0	162.8	199.7	226.9	278.7	352.6	421.7	480.9	473.5	478.4
80°	71.5	71.5	91.2	118.4	157.8	197.3	234.3	273.7	305.8	313.2	320.6
82.5°	41.9	44.4	59.2	86.3	113.4	140.6	180.0	207.1	236.7	239.2	244.1
85°	22.2	24.7	37.0	56.7	76.4	86.3	88.8	83.8	91.2	86.3	98.6
87.5°	7.4	7.4	12.3	9.9	9.9	12.3	14.8	14.8	19.7	19.7	19.7
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: P530736

CATALOG NUMBER: GALN-SA6A-727-U-T2-GRSWH

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3639.8	3639.8	3639.8	3639.8	3639.8	3639.8	3639.8	3639.8	3639.8	3639.8	3639.8
2.5°	3659.5	3659.5	3617.6	3538.7	3526.4	3494.3	3464.7	3462.3	3440.1	3420.3	3410.5
5°	3728.6	3652.1	3590.5	3519.0	3435.1	3395.7	3351.3	3302.0	3282.2	3302.0	3299.5
7.5°	3807.5	3743.4	3558.4	3425.3	3329.1	3289.6	3240.3	3188.5	3193.5	3193.5	3158.9
10°	3883.9	3797.6	3501.7	3331.6	3191.0	3161.4	3134.3	3154.0	3178.7	3183.6	3161.4
12.5°	4012.2	3817.4	3474.6	3237.8	3149.1	3085.0	3102.2	3156.5	3208.3	3193.5	3210.7
15°	4108.3	3834.6	3351.3	3141.7	3030.7	3060.3	3121.9	3158.9	3245.2	3235.4	3252.6
17.5°	4202.1	3844.5	3230.5	3013.4	2966.6	3048.0	3094.8	3200.9	3228.0	3287.2	3309.4
20°	4394.4	3864.2	3107.2	2934.5	2919.7	3013.4	3094.8	3144.1	3203.3	3255.1	3255.1
22.5°	4493.0	3854.3	3025.8	2831.0	2877.8	2937.0	3011.0	3094.8	3094.8	3144.1	3146.6
25°	4616.3	3814.9	2897.5	2781.6	2816.2	2872.9	2956.7	2927.1	2959.2	2959.2	2998.6
27.5°	4756.9	3731.0	2786.6	2692.9	2761.9	2823.6	2835.9	2816.2	2779.2	2774.2	2759.4
30°	4870.3	3627.5	2705.2	2663.3	2720.0	2754.5	2715.1	2673.1	2609.0	2604.1	2569.6
32.5°	5025.7	3499.2	2604.1	2589.3	2653.4	2655.9	2643.5	2579.4	2485.7	2446.3	2406.8
35°	5287.1	3425.3	2527.6	2549.8	2569.6	2562.2	2540.0	2470.9	2377.2	2360.0	2345.2
37.5°	5479.4	3371.0	2448.7	2475.9	2493.1	2503.0	2436.4	2360.0	2362.4	2327.9	2318.0
40°	5696.4	3336.5	2384.6	2396.9	2399.4	2431.5	2350.1	2313.1	2330.4	2308.2	2323.0
42.5°	5975.1	3346.4	2318.0	2308.2	2355.0	2342.7	2303.2	2253.9	2263.8	2197.2	2207.1
45°	6123.1	3412.9	2278.6	2234.2	2286.0	2283.5	2231.7	2184.9	2125.7	1997.5	2002.4
47.5°	6221.7	3430.2	2184.9	2155.3	2209.5	2241.6	2182.4	2073.9	1990.1	1898.8	1876.6
50°	6322.8	3462.3	2140.5	2078.8	2101.0	2177.5	2103.5	1999.9	1918.5	1837.2	1849.5
52.5°	6411.6	3523.9	2054.2	1962.9	2002.4	2086.2	2046.8	1921.0	1832.2	1765.7	1745.9
55°	6806.1	3662.0	1908.7	1790.3	1884.0	1990.1	1967.9	1815.0	1718.8	1684.3	1679.3
56°	6867.8	3666.9	1832.2	1731.1	1817.4	1958.0	1930.9	1768.1	1681.8	1627.6	1630.0
57.5°	6877.7	3607.7	1723.7	1676.9	1750.9	1911.1	1876.6	1731.1	1612.8	1563.4	1548.6
60°	6051.5	2816.2	1588.1	1558.5	1644.8	1768.1	1755.8	1630.0	1496.9	1440.1	1467.3
62.5°	4125.6	2064.0	1482.1	1477.1	1521.5	1642.4	1610.3	1496.9	1385.9	1348.9	1331.6
65°	2401.9	1565.9	1378.5	1358.8	1395.8	1459.9	1482.1	1363.7	1247.8	1223.1	1215.7
67.5°	1417.9	1294.6	1245.3	1213.3	1200.9	1240.4	1257.7	1188.6	1072.7	1038.2	1067.8
70°	1186.1	1151.6	1154.1	1099.8	1070.2	1043.1	1028.3	966.7	870.5	826.1	813.8
72.5°	1023.4	1008.6	998.7	949.4	922.3	860.6	796.5	734.9	663.4	626.4	628.8
75°	781.7	776.8	781.7	757.1	710.2	660.9	601.7	522.8	468.5	421.7	431.5
77.5°	466.1	480.9	488.3	478.4	458.7	414.3	377.3	325.5	273.7	236.7	231.8
80°	320.6	332.9	345.2	332.9	313.2	281.1	241.7	202.2	165.2	145.5	140.6
82.5°	244.1	256.5	263.9	251.5	226.9	192.3	165.2	138.1	108.5	88.8	83.8
85°	88.8	101.1	98.6	118.4	128.2	123.3	106.0	81.4	61.6	44.4	41.9
87.5°	24.7	22.2	24.7	24.7	24.7	22.2	19.7	19.7	19.7	12.3	9.9
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)