

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: P531898

Luminaire Tested: **GALN-SA7B-727-U-SL2-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P531898
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-18)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA7B-727-U-SL2-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28093 lumens
Efficiency: N/A
Efficacy: 98.2 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

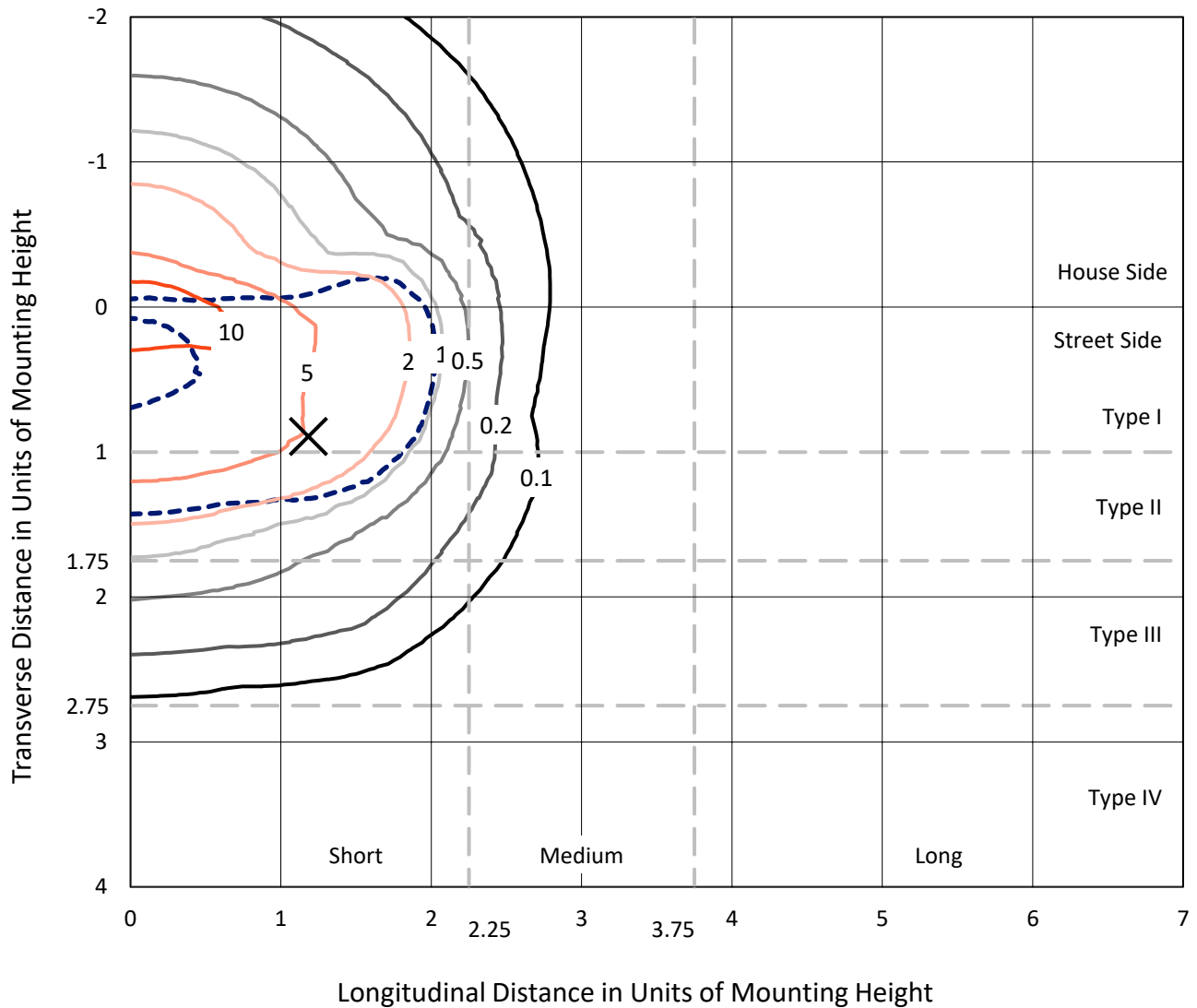
Input Watts (W): 286
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P531898
 CATALOG NUMBER: GALN-SA7B-727-U-SL2-GRSWH

Iso-Footcandle Lines of Horizontal Illumination

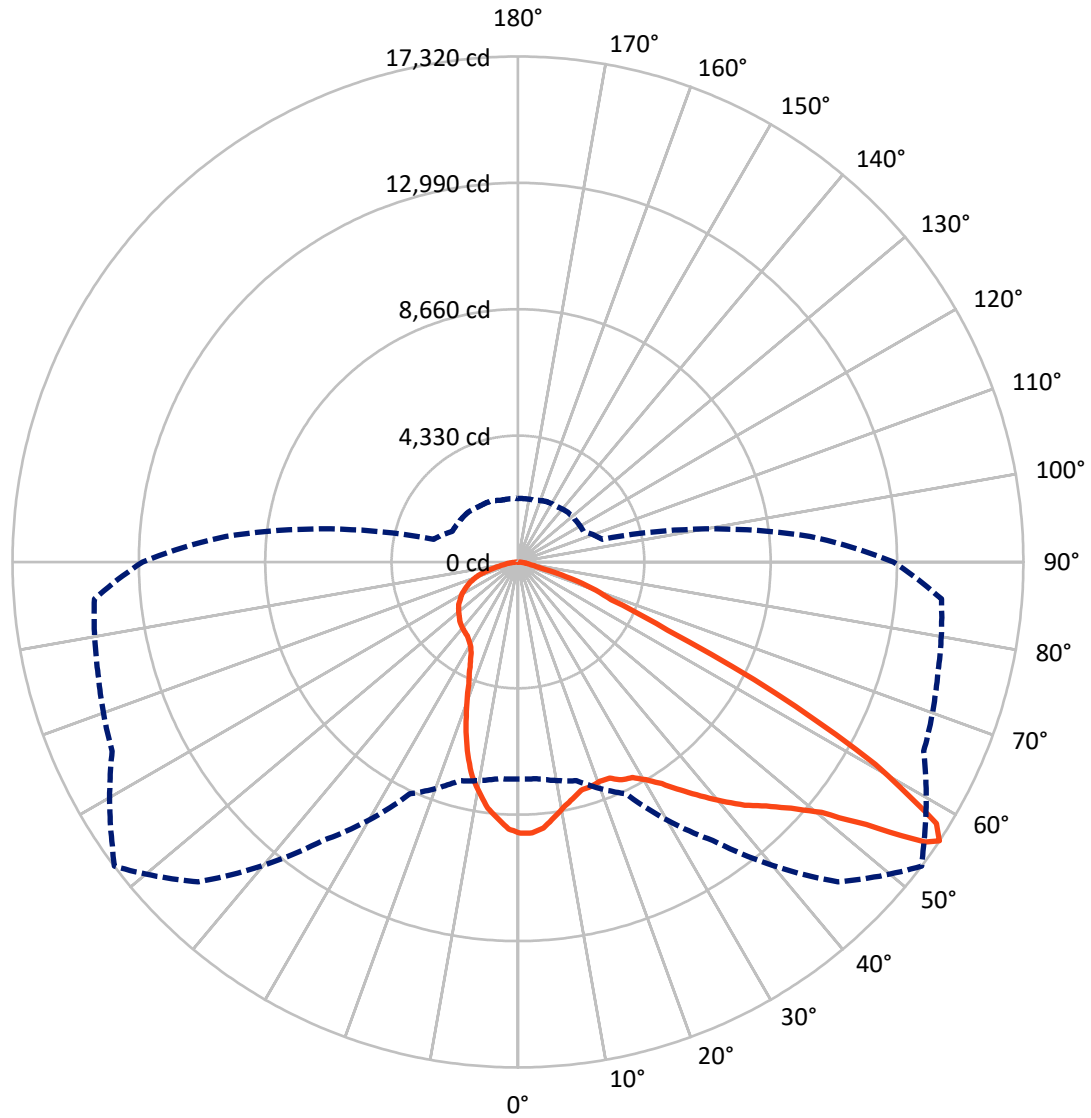
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.9 fc
 Type II - Short - N/A

REPORT NUMBER: P531898
CATALOG NUMBER: GALN-SA7B-727-U-SL2-GRSWH

Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

REPORT NUMBER: P531898
 CATALOG NUMBER: GALN-SA7B-727-U-SL2-GRSWH

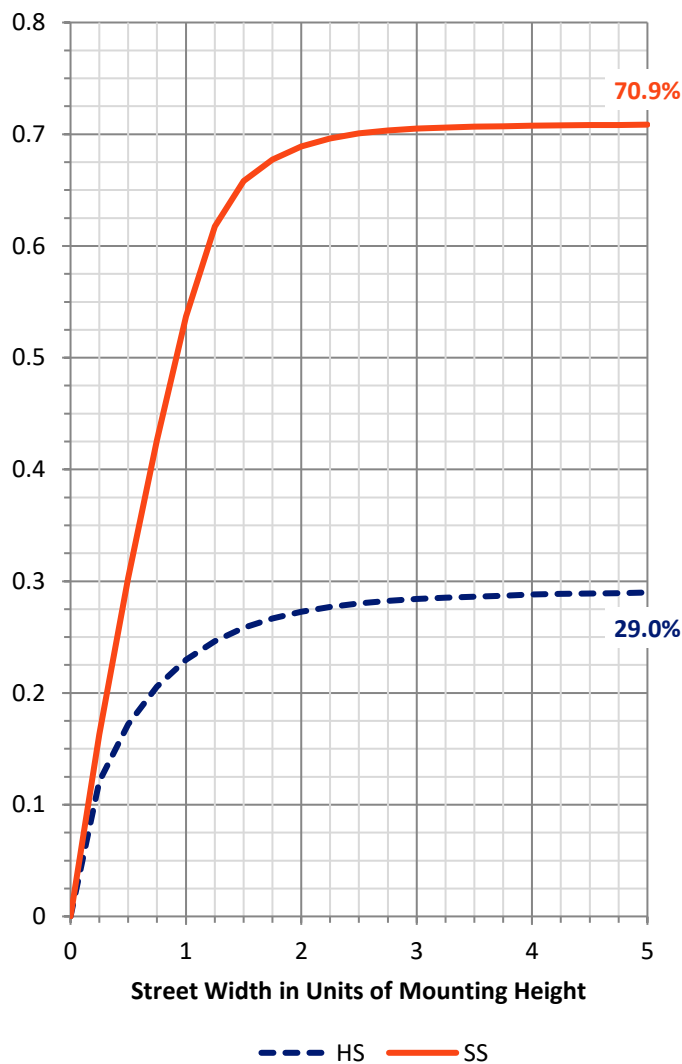
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8198.1	0.0	8198.1
	% Fixture	29.2	0.0	29.2
Street Side	Lumens	19894.9	0.0	19894.9
	% Fixture	70.8	0.0	70.8
Total	Lumens	28093.0	0.0	28093.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	822.8	2.9
10°-20°	2055.0	7.3
20°-30°	3030.3	10.8
30°-40°	4329.7	15.4
40°-50°	5959.3	21.2
50°-60°	7042.3	25.1
60°-70°	3753.1	13.4
70°-80°	952.1	3.4
80°-90°	148.5	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°	28093.0	100.0
0°-180°	28093.0	100.0

Coefficient of Utilization



REPORT NUMBER: P531898

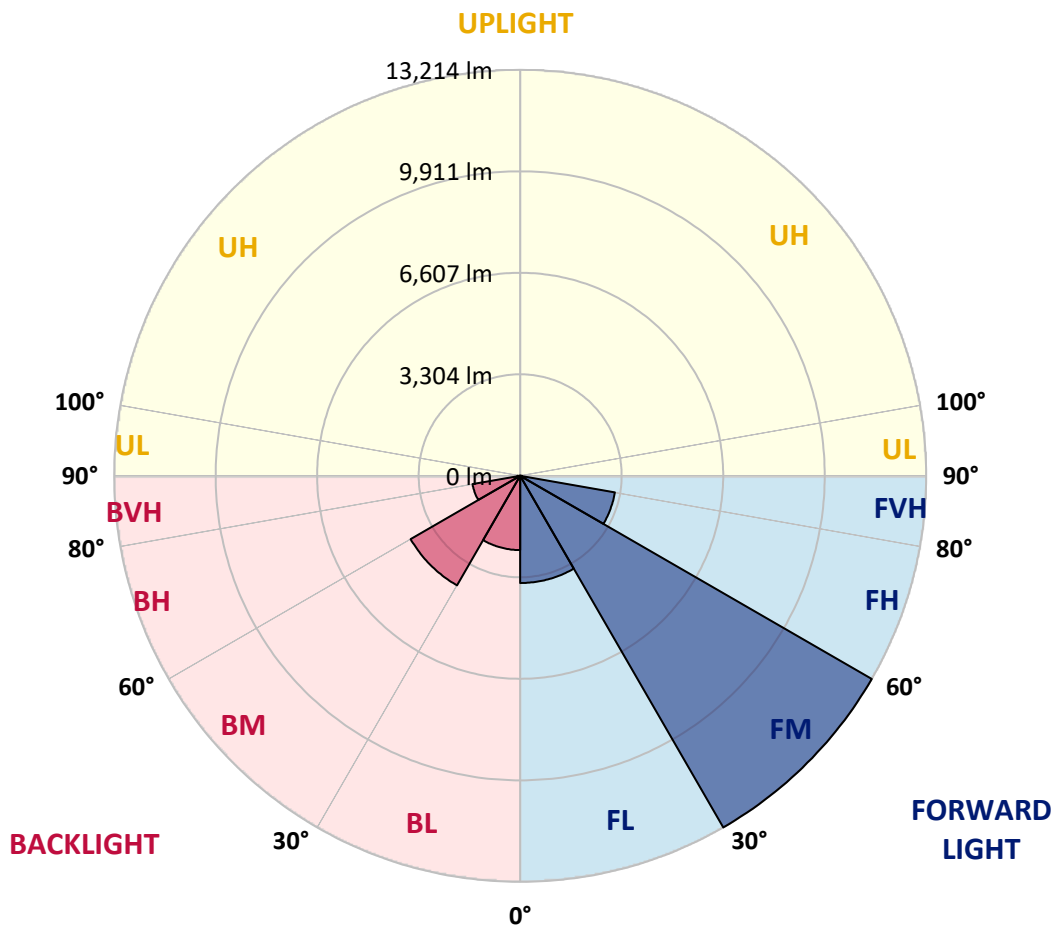
CATALOG NUMBER: GALN-SA7B-727-U-SL2-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3490.2	12.4			
FM (30°-60°)	13214.4	47.0			
FH (60°-80°)	3130.6	11.1			G2/5000
FVH (80°-90°)	59.7	0.2			G1/100
BL (0°-30°)	2418.0	8.6	B3/2500		
BM (30°-60°)	4116.8	14.7	B3/5000		
BH (60°-80°)	1574.6	5.6	B3/2500		G3/2500
BVH (80°-90°)	88.8	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: P531898

CATALOG NUMBER: GALN-SA7B-727-U-SL2-GRSWH

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	9294.3	9294.3	9294.3	9294.3	9294.3	9294.3	9294.3	9294.3	9294.3	9294.3	9294.3
2.5°	9178.9	9099.7	9146.5	9128.5	9276.3	9319.5	9297.9	9315.9	9398.8	9359.1	9276.3
5°	8577.1	8688.8	8710.5	8764.5	8851.0	9020.4	9153.7	9189.8	9229.4	9413.2	9395.2
7.5°	8029.3	8105.0	8065.4	8223.9	8411.3	8685.2	8847.4	8876.2	9240.2	9341.1	9416.8
10°	7683.4	7607.7	7787.9	7831.1	8043.7	8357.3	8551.9	8670.8	9002.4	9402.4	9449.2
12.5°	7362.6	7337.4	7445.5	7568.0	7805.9	8130.2	8328.4	8375.3	8887.0	9308.7	9528.5
15°	7124.8	7095.9	7204.1	7294.1	7571.6	7859.9	8112.2	8245.6	8760.9	9254.6	9460.0
17.5°	6937.4	6933.8	6995.0	7157.2	7441.9	7683.4	8090.6	8097.8	8696.0	9337.5	9517.7
20°	6926.6	6923.0	6933.8	7114.0	7373.4	7668.9	8022.1	8087.0	8696.0	9279.9	9521.3
22.5°	7016.7	6959.0	7023.9	7139.2	7326.6	7694.2	8047.3	8191.5	8905.1	9564.6	9683.5
25°	7160.8	7175.2	7211.3	7250.9	7359.0	7751.8	8270.8	8389.7	9150.1	9809.6	9906.9
27.5°	7423.9	7416.7	7431.1	7452.7	7546.4	7805.9	8360.9	8667.2	9661.9	10245.7	10148.4
30°	7809.5	7784.3	7841.9	7917.6	7831.1	7978.9	8660.0	8890.6	10137.6	10685.3	10418.7
32.5°	8159.1	8252.8	8360.9	8393.3	8288.8	8317.6	9056.4	9290.7	10534.0	11225.9	10750.2
35°	8595.1	8670.8	8815.0	8915.9	8897.9	8811.4	9597.0	9906.9	11107.0	11622.3	11099.8
37.5°	9020.4	9110.5	9348.3	9647.4	9481.7	9442.0	10173.6	10429.5	11283.6	11835.0	11355.7
40°	9705.1	9701.5	10112.3	10267.3	10415.1	10346.6	10771.8	10858.3	11377.3	11788.1	11362.9
42.5°	10508.8	10458.3	10876.4	11117.8	11308.8	11316.0	11395.3	11366.5	11420.5	11550.3	11287.2
45°	11272.8	11380.9	11802.5	12235.0	12426.0	12447.6	11921.5	11867.4	11496.2	11481.8	11143.0
47.5°	12206.2	12231.4	12577.4	13146.8	13590.0	13438.7	12602.6	12483.7	11827.8	11939.5	11384.5
50°	12260.2	12447.6	12757.5	13427.9	14790.1	14750.5	13485.5	13262.1	12361.1	12588.2	12058.4
52.5°	11128.6	11085.4	11453.0	12548.5	14700.0	16055.1	14948.7	14415.3	13507.1	13334.2	13150.4
55°	8479.8	8580.7	8905.1	10011.4	12764.8	16073.1	16941.6	16505.5	14732.4	14436.9	14224.3
56°	7438.3	7452.7	7759.0	8768.1	11647.6	15500.1	17320.0	16966.8	15341.5	14891.0	14566.7
57.5°	6166.1	6083.3	6241.8	6793.2	9831.2	14289.2	16905.6	17251.5	16055.1	15381.1	14930.7
60°	4854.4	4836.3	4771.5	4872.4	6213.0	10764.6	14072.9	14851.4	15983.0	14919.8	14300.0
62.5°	3964.2	3874.1	4003.9	4148.0	4317.4	6677.9	9888.9	10346.6	12689.1	11910.7	10743.0
65°	3074.1	3030.8	3193.0	3661.5	3762.4	4241.7	5632.8	5986.0	7492.4	7359.0	6479.7
67.5°	2115.4	2122.7	2263.2	2976.8	3488.5	3445.3	3448.9	3632.7	3910.2	2904.7	2529.9
70°	1340.6	1337.0	1412.7	1917.2	2807.4	2836.2	2692.1	2638.0	2501.1	1513.6	1603.7
72.5°	861.3	836.1	875.7	1059.5	1452.3	1679.4	1729.8	1762.3	1448.7	1189.3	1290.2
75°	486.5	461.3	446.9	493.7	573.0	663.1	728.0	749.6	839.7	901.0	955.0
77.5°	147.8	133.3	162.2	216.2	284.7	382.0	464.9	479.3	565.8	637.9	691.9
80°	64.9	72.1	100.9	144.2	201.8	270.3	327.9	349.6	407.2	461.3	475.7
82.5°	39.6	43.2	68.5	97.3	140.5	191.0	234.2	241.5	299.1	342.4	353.2
85°	14.4	18.0	36.0	57.7	90.1	122.5	122.5	133.3	122.5	122.5	133.3
87.5°	0.0	0.0	3.6	7.2	7.2	10.8	14.4	14.4	18.0	21.6	25.2
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: P531898

CATALOG NUMBER: GALN-SA7B-727-U-SL2-GRSWH

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	9294.3	9294.3	9294.3	9294.3	9294.3	9294.3	9294.3	9294.3	9294.3	9294.3	9294.3
2.5°	9319.5	9301.5	9272.6	9168.1	9157.3	9124.9	8944.7	8915.9	8944.7	8858.2	8865.4
5°	9301.5	9355.5	9139.3	9034.8	8840.2	8699.6	8537.5	8454.6	8306.8	8213.1	8317.6
7.5°	9380.8	9359.1	9088.9	8861.8	8569.9	8213.1	7928.4	7766.2	7506.8	7434.7	7488.8
10°	9351.9	9236.6	8919.5	8620.4	8069.0	7755.4	7294.1	6847.3	6602.2	6476.1	6458.1
12.5°	9312.3	9279.9	8750.1	8234.7	7654.5	6995.0	6346.3	5924.7	5524.7	5351.7	5376.9
15°	9359.1	9085.2	8433.0	7780.7	7009.4	6144.5	5445.4	4901.2	4623.7	4512.0	4512.0
17.5°	9337.5	8991.6	8281.6	7272.5	6295.9	5272.4	4504.8	4176.8	4061.5	4061.5	4093.9
20°	9348.3	9052.8	7975.3	6764.4	5452.6	4439.9	3881.3	3762.4	3812.8	3830.9	3848.9
22.5°	9409.6	8851.0	7676.2	6205.8	4670.6	3798.4	3524.5	3528.1	3618.2	3715.5	3697.5
25°	9485.3	8771.7	7312.2	5650.8	4072.3	3484.9	3398.4	3387.6	3456.1	3506.5	3513.7
27.5°	9420.4	8634.8	6941.0	4958.9	3582.2	3275.9	3257.9	3265.1	3286.7	3387.6	3355.2
30°	9633.0	8674.4	6476.1	4378.7	3311.9	3207.4	3185.8	3175.0	3207.4	3236.2	3211.0
32.5°	9896.1	8533.9	6130.1	3820.1	3178.6	3157.0	3113.7	3099.3	3117.3	3088.5	3102.9
35°	10011.4	8508.6	5679.6	3420.0	3074.1	3056.0	3030.8	3027.2	3030.8	3005.6	2984.0
37.5°	10076.3	8627.6	5164.3	3236.2	3009.2	3027.2	2969.6	2962.3	2897.5	2911.9	2922.7
40°	10188.0	8443.8	4746.2	3059.6	2969.6	2933.5	2883.1	2872.3	2829.0	2803.8	2829.0
42.5°	10025.8	8389.7	4335.4	2984.0	2911.9	2872.3	2836.2	2774.9	2760.5	2738.9	2724.5
45°	9896.1	8079.8	3967.8	2890.3	2843.4	2821.8	2753.3	2688.5	2634.4	2656.0	2623.6
47.5°	9993.4	7971.7	3603.8	2811.0	2749.7	2724.5	2656.0	2605.6	2551.5	2526.3	2519.1
50°	10382.6	8173.5	3297.5	2753.3	2670.4	2656.0	2565.9	2508.3	2457.8	2439.8	2447.0
52.5°	11312.4	8724.9	3088.5	2634.4	2594.8	2529.9	2479.4	2407.4	2374.9	2317.3	2353.3
55°	12490.9	9622.2	3034.4	2522.7	2501.1	2443.4	2374.9	2320.9	2259.6	2212.8	2201.9
56°	12869.3	10051.1	2991.2	2479.4	2443.4	2411.0	2320.9	2288.4	2191.1	2180.3	2173.1
57.5°	13175.6	10429.5	2998.4	2396.5	2360.5	2331.7	2277.6	2198.3	2133.5	2093.8	2111.8
60°	12483.7	9762.8	2861.4	2270.4	2263.2	2209.1	2133.5	2097.4	2018.1	1971.3	1960.5
62.5°	9279.9	6627.4	2320.9	2108.2	2104.6	2047.0	1960.5	1920.8	1906.4	1841.6	1841.6
65°	5344.5	4155.2	2007.3	1974.9	1946.1	1888.4	1801.9	1769.5	1733.4	1711.8	1693.8
67.5°	2281.2	2155.1	1823.5	1819.9	1787.5	1715.4	1628.9	1578.5	1531.6	1488.4	1510.0
70°	1654.2	1679.4	1646.9	1628.9	1589.3	1499.2	1423.5	1362.2	1290.2	1261.3	1283.0
72.5°	1311.8	1365.9	1412.7	1416.3	1369.5	1264.9	1182.1	1099.2	1019.9	980.2	998.3
75°	994.7	1030.7	1077.5	1088.4	1019.9	947.8	868.5	782.0	720.8	673.9	681.1
77.5°	717.2	710.0	753.2	746.0	713.6	663.1	591.0	511.7	443.3	400.0	403.6
80°	490.1	500.9	526.2	522.6	482.9	450.5	396.4	331.6	281.1	245.1	237.9
82.5°	342.4	360.4	382.0	364.0	331.6	299.1	259.5	212.6	173.0	144.2	136.9
85°	122.5	140.5	162.2	173.0	183.8	176.6	147.8	118.9	86.5	72.1	68.5
87.5°	25.2	28.8	32.4	32.4	32.4	28.8	25.2	25.2	21.6	10.8	10.8
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)