

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: P533081

Luminaire Tested: **GALN-SA8C-727-U-T3R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533081
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-11)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA8C-727-U-T3R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28875 lumens
Efficiency: N/A
Efficacy: 67.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

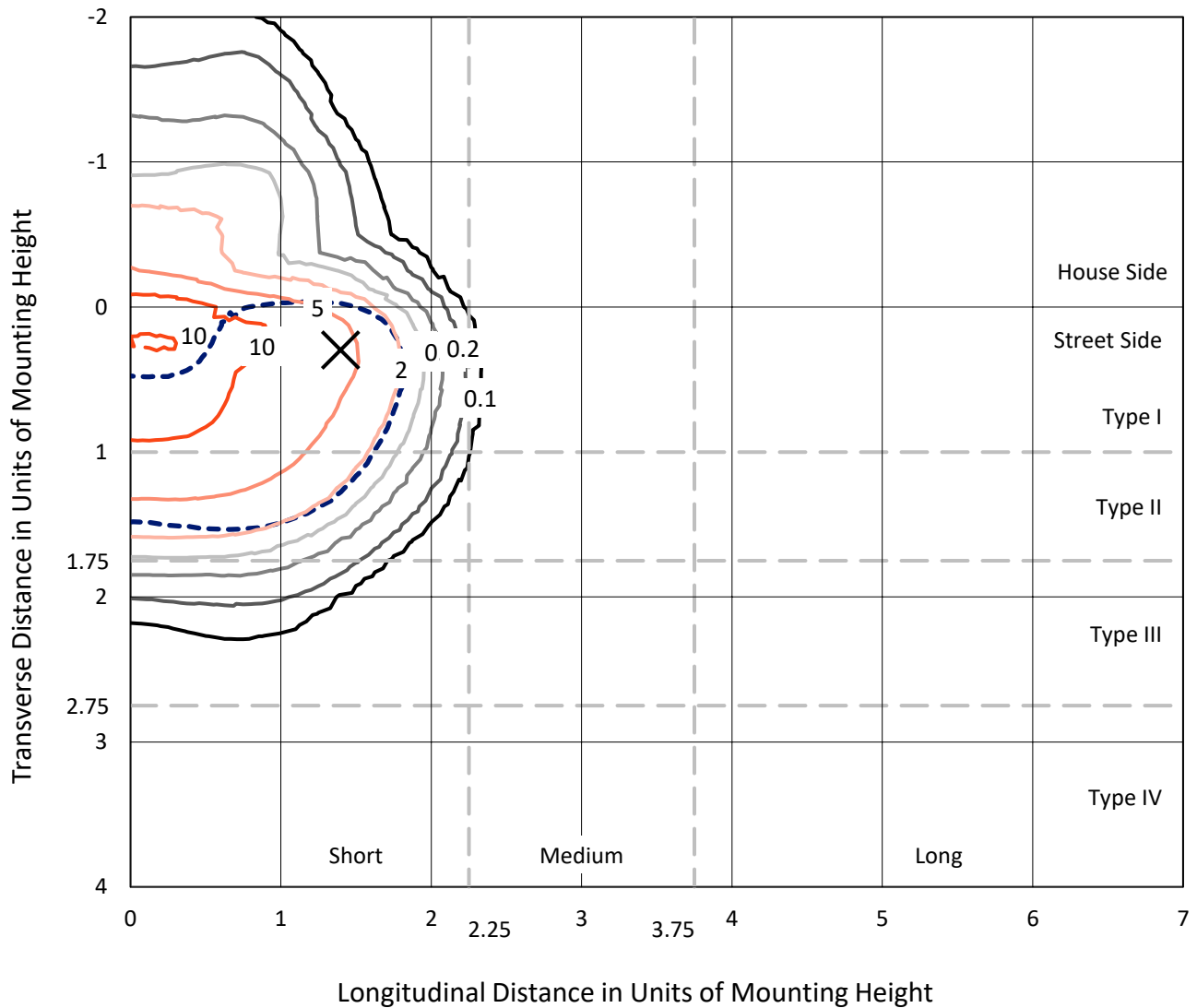
Input Watts (W): 429
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P533081
 CATALOG NUMBER: GALN-SA8C-727-U-T3R-GRSBK

Iso-Footcandle Lines of Horizontal Illumination

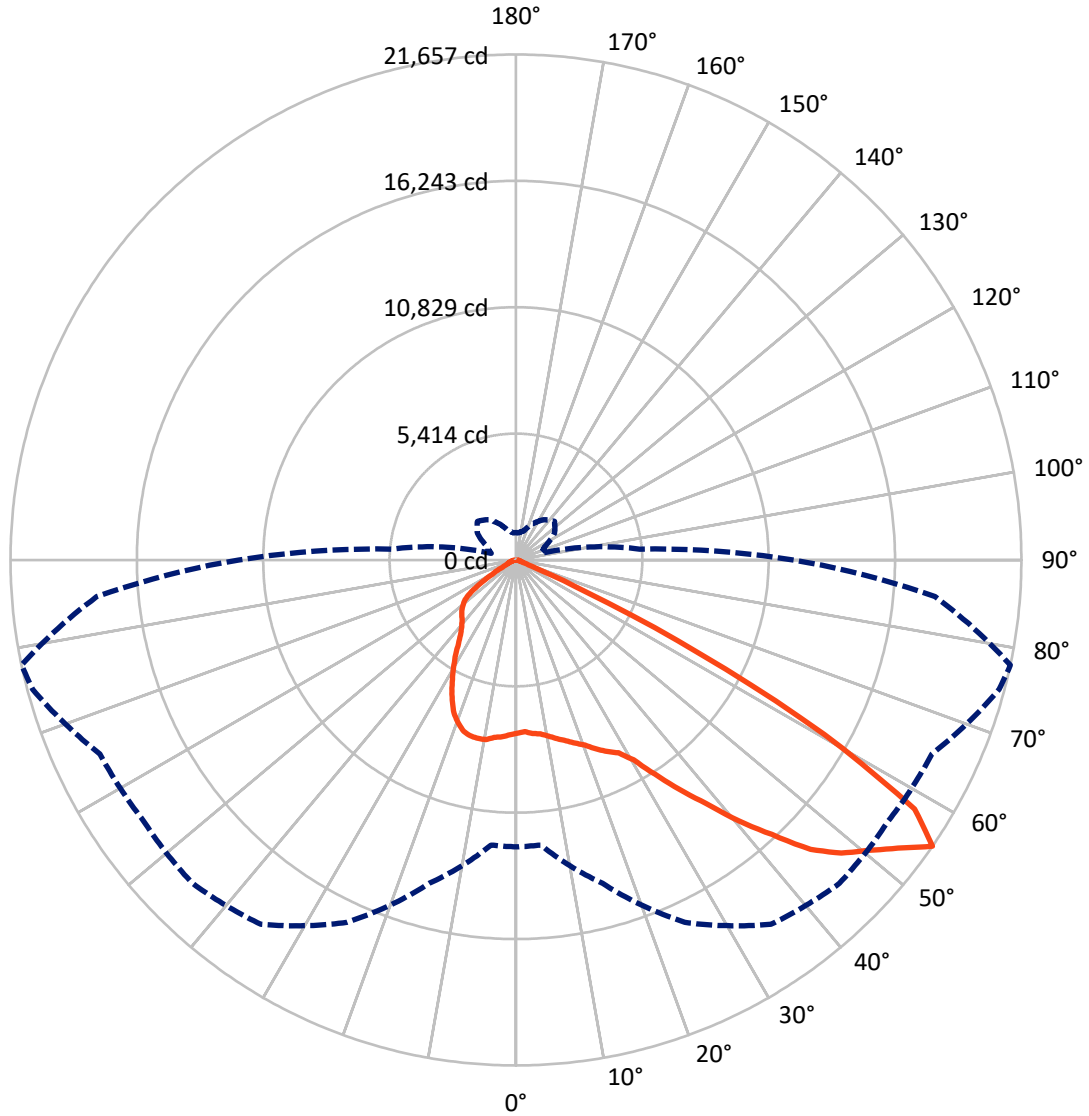
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.8 fc
 Type II - Short - N/A

REPORT NUMBER: P533081
CATALOG NUMBER: GALN-SA8C-727-U-T3R-GRSBK

Luminous Intensity Polar Plot



— Vertical Plane Through 78-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

REPORT NUMBER: P533081

CATALOG NUMBER: GALN-SA8C-727-U-T3R-GRSBK

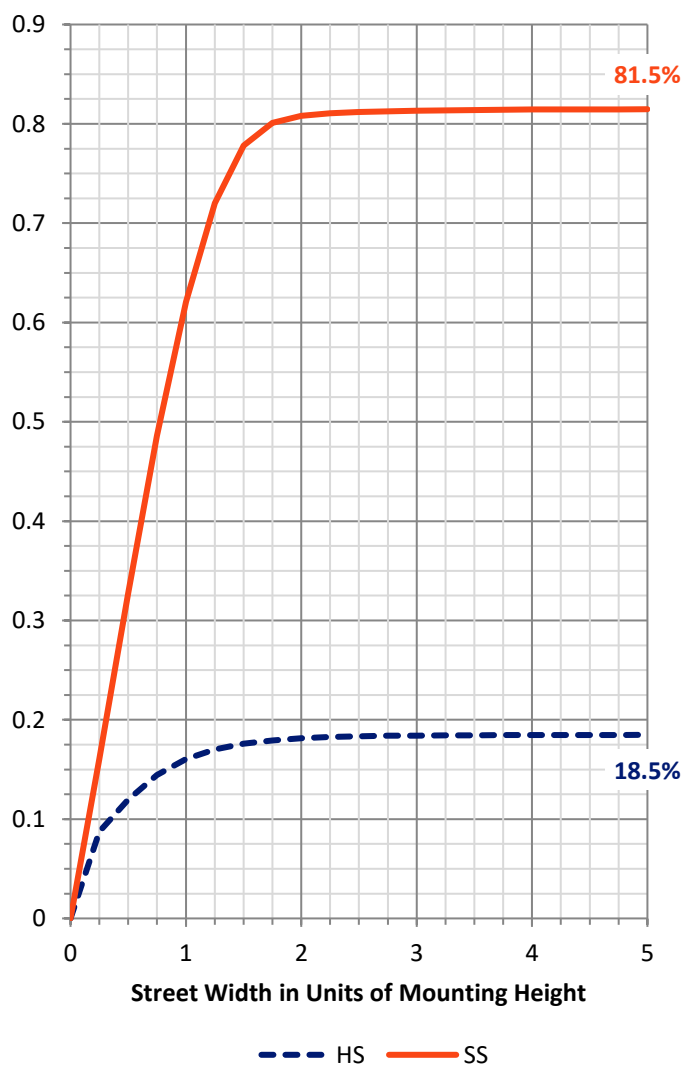
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5363.2	0.0	5363.2
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	23511.8	0.0	23511.8
	% Fixture	81.4	0.0	81.4
Total	Lumens	28875.0	0.0	28875.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	662.0	2.3
10°-20°	1751.9	6.1
20°-30°	3070.8	10.6
30°-40°	5063.3	17.5
40°-50°	7367.8	25.5
50°-60°	8348.4	28.9
60°-70°	2387.0	8.3
70°-80°	185.3	0.6
80°-90°	38.6	0.1
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°	28875.0	100.0
0°-180°	28875.0	100.0

Coefficient of Utilization



REPORT NUMBER: P533081

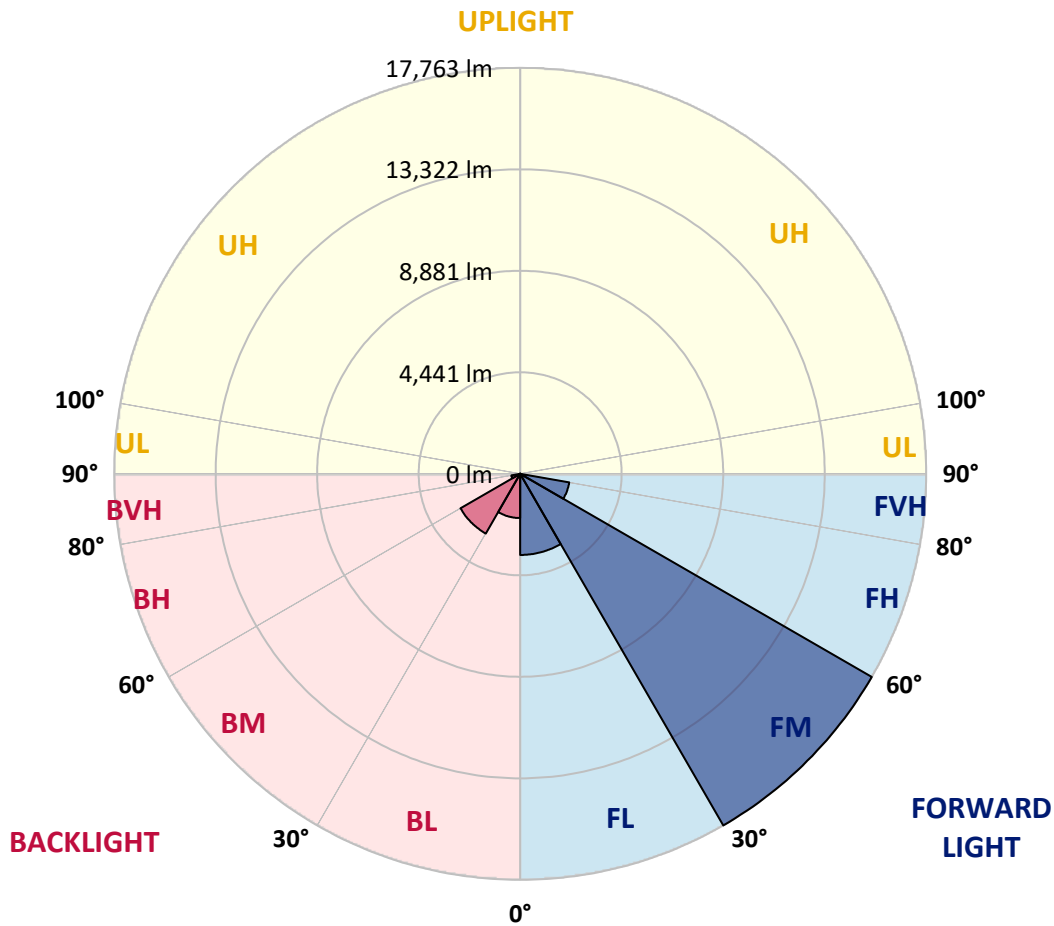
CATALOG NUMBER: GALN-SA8C-727-U-T3R-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3549.6	12.3			
FM (30°-60°)	17762.6	61.5			
FH (60°-80°)	2180.8	7.6			G2/5000
FVH (80°-90°)	18.8	0.1			G1/100
BL (0°-30°)	1935.1	6.7	B3/2500		
BM (30°-60°)	3016.9	10.4	B3/5000		
BH (60°-80°)	391.5	1.4	B1/500		G1/500
BVH (80°-90°)	19.8	0.1			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





REPORT NUMBER: P533081

CATALOG NUMBER: GALN-SA8C-727-U-T3R-GRSBK

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	78°	85°
0°	7423.8	7423.8	7423.8	7423.8	7423.8	7423.8	7423.8	7423.8	7423.8	7423.8	7423.8
2.5°	6979.8	7046.9	7057.2	7139.8	7134.7	7274.1	7315.4	7320.5	7413.5	7367.0	7485.7
5°	6783.6	6747.5	6732.0	6876.5	6917.8	7041.7	7145.0	7207.0	7398.0	7465.1	7589.0
7.5°	6608.1	6608.1	6618.4	6747.5	6732.0	6892.0	7000.4	7191.5	7470.2	7527.0	7676.7
10°	6437.7	6375.8	6453.2	6587.4	6701.0	6773.3	7000.4	7181.1	7506.4	7671.6	7878.1
12.5°	6350.0	6380.9	6391.3	6489.4	6613.3	6830.1	6954.0	7253.4	7764.5	7862.6	8084.6
15°	6902.4	6840.4	6690.7	6602.9	6706.2	6809.4	7119.2	7423.8	7898.7	8038.1	8285.9
17.5°	7542.5	7490.9	7367.0	7129.5	6897.2	7088.2	7330.9	7609.6	8043.3	8249.8	8616.3
20°	8378.9	8296.3	8172.4	7707.7	7506.4	7299.9	7558.0	7888.4	8280.8	8466.6	8843.5
22.5°	9375.2	9375.2	9096.5	8533.7	8115.6	7919.4	8027.8	8218.8	8544.1	8797.0	9168.7
25°	10412.9	10381.9	10129.0	9545.6	8838.3	8606.0	8729.9	8864.1	8951.9	9091.3	9339.1
27.5°	11600.3	11419.6	11099.5	10454.2	9829.5	9380.4	9514.6	9395.9	9287.5	9359.7	9716.0
30°	12405.7	12519.2	12111.4	11491.9	10903.4	10402.6	10428.4	10325.1	9829.5	9932.8	10144.5
32.5°	13242.0	13314.3	13087.1	12746.4	12157.9	11574.5	11362.8	11275.1	10903.4	10949.8	10743.3
35°	13938.9	14078.3	13877.0	13727.3	13556.9	13087.1	12503.8	12787.7	12188.8	12075.3	11538.3
37.5°	14579.1	14537.8	14775.3	14620.4	14584.3	14253.9	13613.7	13670.5	13267.8	13242.0	12622.5
40°	15152.2	15162.5	15487.7	15560.0	15415.4	14826.9	13897.6	14346.8	14672.0	14703.0	13908.0
42.5°	15627.1	15766.5	16045.3	16628.6	16411.8	15430.9	14191.9	14682.4	15890.4	16081.4	15126.3
45°	16040.1	16324.1	16669.9	17191.4	17067.5	16287.9	14925.0	15374.1	17191.4	17692.1	16272.4
47.5°	16065.9	16437.6	16814.5	17588.9	17743.8	16747.4	15683.9	16468.6	18223.9	18766.0	17108.8
50°	15962.7	16158.9	16912.6	17754.1	18105.1	17496.0	16747.4	17387.5	19225.4	19566.2	17532.1
52.5°	14739.1	14888.9	16401.5	17909.0	18755.6	18342.6	18156.8	18667.9	20247.6	20500.6	17929.6
55°	12286.9	12261.1	14341.6	17129.4	19055.1	19597.1	19483.5	19664.2	21429.8	21657.0	18027.7
57.5°	8404.7	8874.5	10671.0	14264.2	17222.3	19302.9	19421.6	19122.2	20051.4	20139.2	15714.9
60°	4532.7	4728.9	6174.4	9519.8	13112.9	15730.4	16040.1	15498.0	15425.8	15178.0	11218.3
62.5°	1801.7	1899.8	2720.7	4713.4	7145.0	9561.1	10227.1	10005.1	9530.1	8879.6	5807.9
65°	857.0	918.9	1352.6	2204.4	3169.8	3985.5	4651.5	4858.0	3582.8	3226.6	1915.3
67.5°	583.4	629.8	986.1	1259.7	1130.6	1182.2	1538.4	1430.0	841.5	717.6	531.7
70°	444.0	475.0	789.9	857.0	505.9	356.2	397.5	371.7	345.9	351.1	345.9
72.5°	314.9	340.7	578.2	505.9	222.0	165.2	211.7	253.0	253.0	253.0	247.8
75°	191.0	216.8	335.6	196.2	87.8	87.8	134.2	170.4	180.7	185.9	175.5
77.5°	98.1	123.9	113.6	56.8	56.8	67.1	98.1	118.7	129.1	129.1	123.9
80°	20.7	20.7	20.7	31.0	56.8	72.3	98.1	108.4	123.9	123.9	113.6
82.5°	0.0	5.2	15.5	31.0	51.6	67.1	92.9	108.4	123.9	129.1	118.7
85°	0.0	5.2	10.3	20.7	36.1	41.3	36.1	31.0	31.0	31.0	31.0
87.5°	0.0	0.0	5.2	5.2	5.2	10.3	10.3	10.3	10.3	10.3	10.3
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: P533081

CATALOG NUMBER: GALN-SA8C-727-U-T3R-GRSBK

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	7423.8	7423.8	7423.8	7423.8	7423.8	7423.8	7423.8	7423.8	7423.8	7423.8	7423.8
2.5°	7496.1	7511.5	7485.7	7480.6	7459.9	7521.9	7372.2	7336.0	7428.9	7341.2	7361.8
5°	7594.1	7630.3	7583.8	7506.4	7392.8	7217.3	7067.6	6871.4	6778.5	6711.3	6701.0
7.5°	7666.4	7692.2	7645.8	7398.0	7057.2	6613.3	6282.9	6040.2	5849.2	5792.4	5699.5
10°	7960.7	7965.8	7733.5	7186.3	6520.3	5937.0	5431.0	5059.3	4868.3	4749.6	4697.9
12.5°	8156.9	8146.5	7676.7	6768.1	5880.2	5105.8	4527.6	4078.4	3902.9	3846.1	3810.0
15°	8404.7	8347.9	7542.5	6339.6	5054.2	4217.8	3696.4	3386.6	3371.2	3335.0	3371.2
17.5°	8600.8	8440.8	7346.3	5560.1	4264.3	3474.4	3133.7	3154.3	3195.6	3231.8	3236.9
20°	8920.9	8590.5	6897.2	4878.6	3531.2	2978.8	2973.6	3066.6	3169.8	3211.1	3252.4
22.5°	9163.6	8652.5	6417.1	4150.7	2932.3	2777.5	2865.2	3004.6	3082.1	3123.4	3185.3
25°	9251.3	8482.1	5776.9	3422.8	2643.2	2684.5	2818.8	2911.7	3009.8	3056.2	3030.4
27.5°	9339.1	8394.3	5012.9	2818.8	2488.4	2622.6	2736.2	2829.1	2860.1	2922.0	2963.3
30°	9550.8	8089.8	4326.2	2436.7	2410.9	2581.3	2663.9	2694.9	2777.5	2813.6	2813.6
32.5°	9721.1	7971.0	3598.3	2256.0	2400.6	2601.9	2612.3	2612.3	2622.6	2596.8	2586.4
35°	10072.2	7563.2	2947.8	2147.6	2395.4	2607.1	2632.9	2545.1	2307.7	2214.7	2188.9
37.5°	10505.8	7299.9	2467.7	2121.8	2431.6	2669.1	2710.4	2379.9	2070.2	1920.5	1894.7
40°	11032.4	7114.0	2152.8	2111.5	2514.2	2813.6	2689.7	2250.9	1848.2	1631.4	1621.0
42.5°	11646.8	6943.7	1941.1	2106.3	2617.4	2963.3	2669.1	2142.5	1621.0	1476.5	1497.1
45°	12137.2	6850.7	1796.6	2070.2	2653.6	3051.1	2684.5	1951.5	1528.1	1435.2	1445.5
47.5°	12519.2	6654.6	1677.8	2008.2	2648.4	3082.1	2545.1	1874.0	1481.7	1507.5	1533.3
50°	12529.6	6391.3	1528.1	1874.0	2571.0	3025.3	2385.1	1801.7	1471.3	1579.7	1631.4
52.5°	12390.2	6019.6	1368.1	1683.0	2390.3	2829.1	2240.6	1770.8	1424.9	1414.5	1476.5
55°	11894.6	5322.6	1099.6	1362.9	2018.6	2333.5	2111.5	1714.0	1285.5	1166.7	1177.1
57.5°	9612.7	3815.1	810.5	975.7	1430.0	1708.8	1905.0	1688.2	1156.4	991.2	996.4
60°	5952.4	2163.1	593.7	666.0	882.8	1037.7	1543.6	1569.4	1032.5	836.3	826.0
62.5°	3056.2	1068.7	459.5	469.8	542.1	609.2	1058.3	1316.5	934.4	795.0	795.0
65°	1022.2	526.6	402.7	361.4	361.4	376.9	640.2	913.8	789.9	666.0	666.0
67.5°	438.8	392.4	351.1	314.9	289.1	273.6	361.4	531.7	588.5	505.9	485.3
70°	340.7	330.4	304.6	263.3	227.2	206.5	211.7	273.6	335.6	325.2	314.9
72.5°	253.0	253.0	242.6	206.5	175.5	149.7	139.4	144.6	160.0	165.2	170.4
75°	175.5	180.7	180.7	160.0	129.1	108.4	92.9	77.4	62.0	51.6	46.5
77.5°	118.7	123.9	134.2	118.7	98.1	72.3	56.8	41.3	25.8	10.3	10.3
80°	103.3	118.7	129.1	118.7	103.3	77.4	56.8	31.0	15.5	0.0	0.0
82.5°	108.4	118.7	134.2	113.6	98.1	72.3	56.8	36.1	15.5	5.2	0.0
85°	25.8	25.8	31.0	36.1	46.5	51.6	41.3	25.8	15.5	5.2	0.0
87.5°	10.3	10.3	10.3	10.3	10.3	5.2	5.2	5.2	5.2	0.0	0.0
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)