

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: P533678

Luminaire Tested: **GALN-SA9A-760-U-T3-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P533678  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-16)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA9A-760-U-T3-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 70 CRI, 5700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 35346 lumens  
Efficiency: N/A  
Efficacy: 129.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B4 - U0 - G3

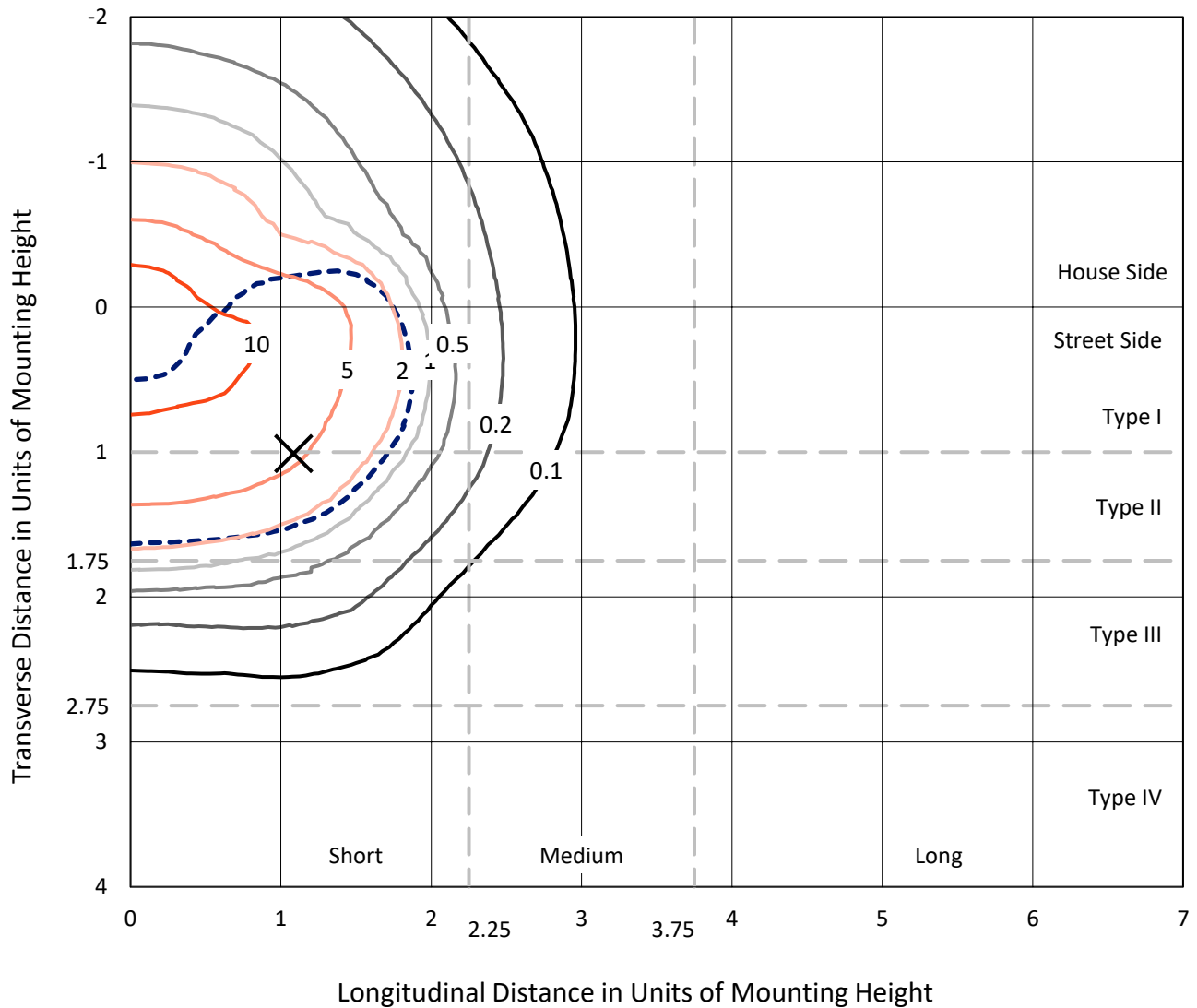
Input Watts (W): 274  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

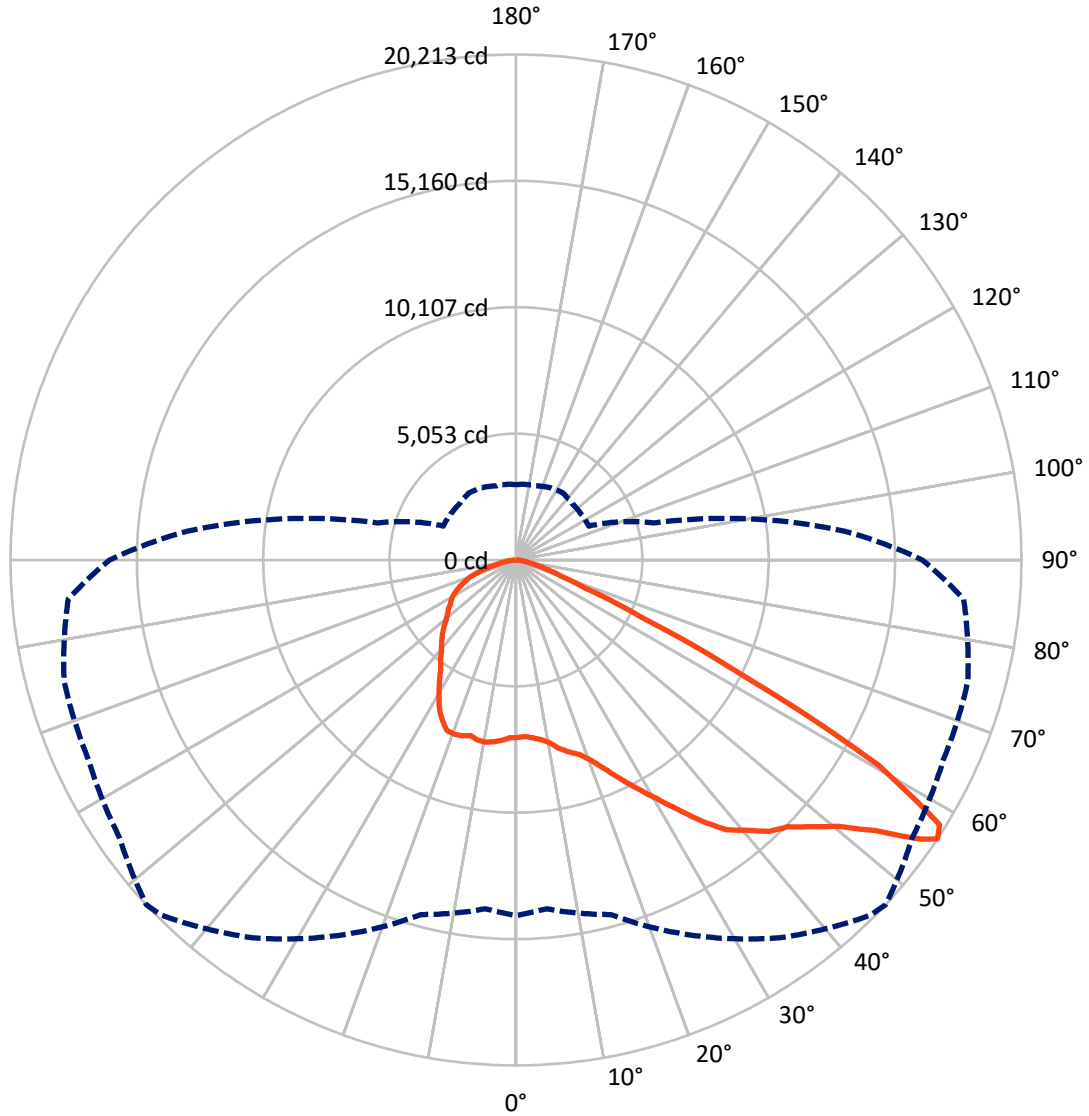
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.9 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral      - - - Horizontal Cone Through 56-Deg Vertical

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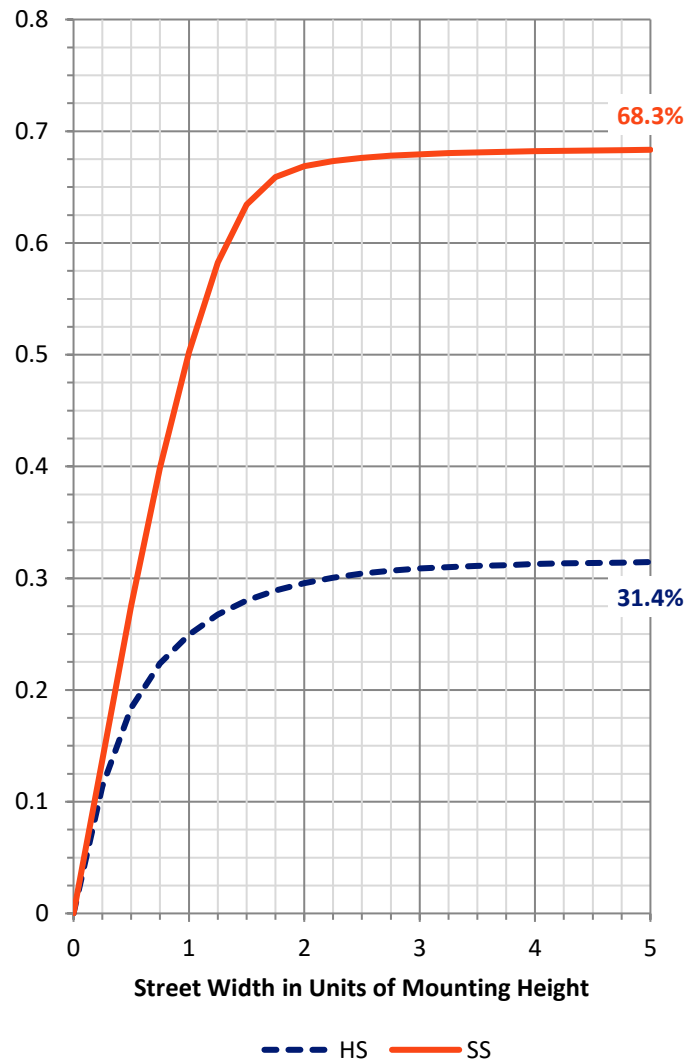
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	11200.7	0.0	11200.7
	% Fixture	31.7	0.0	31.7
<b>Street Side</b>	Lumens	24145.3	0.0	24145.3
	% Fixture	68.3	0.0	68.3
<b>Total</b>	Lumens	35346.0	0.0	35346.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	691.8	2.0
10°-20°	2182.3	6.2
20°-30°	3857.7	10.9
30°-40°	5794.1	16.4
40°-50°	7951.9	22.5
50°-60°	9473.6	26.8
60°-70°	4054.1	11.5
70°-80°	1147.3	3.2
80°-90°	193.1	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°	35346.0	100.0
0°-180°	35346.0	100.0



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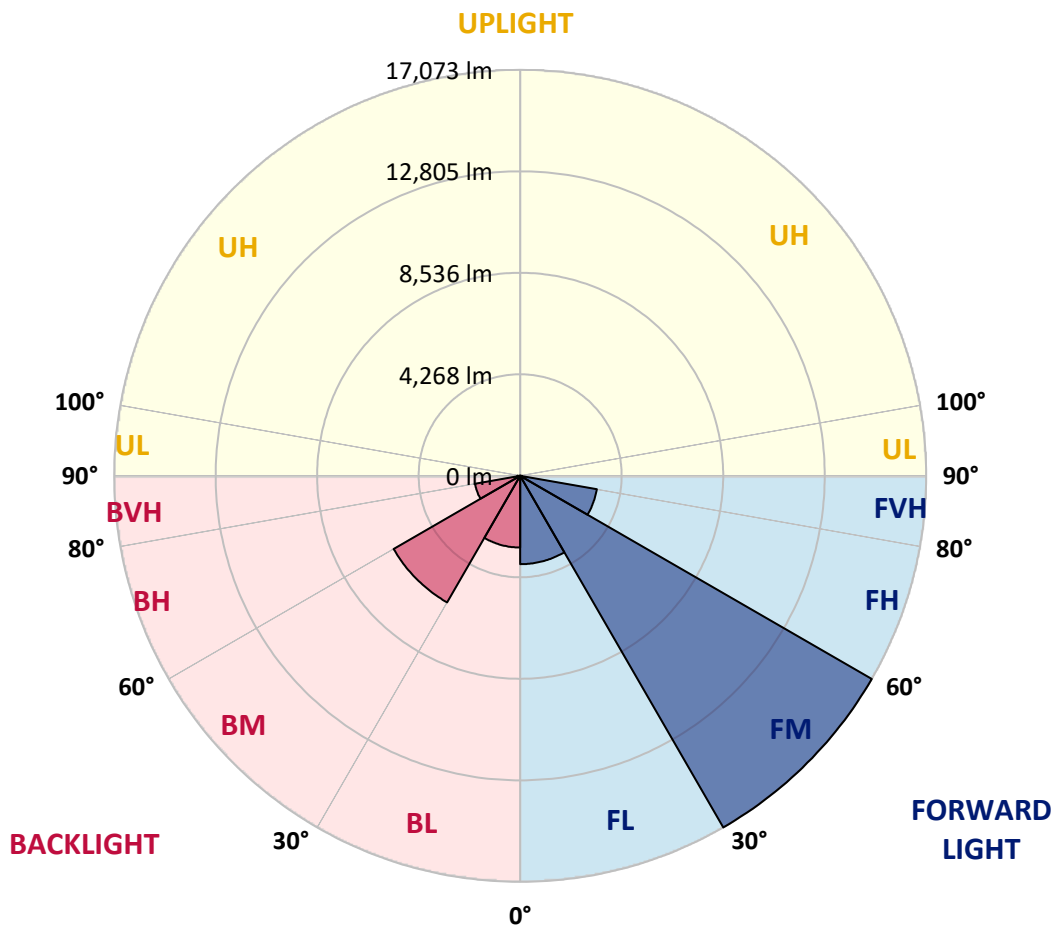
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3716.1	10.5			
FM (30°-60°)	17072.9	48.3			
FH (60°-80°)	3274.3	9.3			G2/5000
FVH (80°-90°)	82.0	0.2			G1/100
BL (0°-30°)	3015.7	8.5	B4/5000		
BM (30°-60°)	6146.8	17.4	B4/8500		
BH (60°-80°)	1927.1	5.5	B3/2500		G3/2500
BVH (80°-90°)	111.1	0.3			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G3**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	7099.9	7099.9	7099.9	7099.9	7099.9	7099.9	7099.9	7099.9	7099.9	7099.9	7099.9
2.5°	7072.9	7059.4	7050.4	7122.5	7095.4	7099.9	7072.9	7099.9	7118.0	7077.4	7136.0
5°	7059.4	7099.9	7063.9	7086.4	7145.0	7127.0	7145.0	7199.1	7185.6	7172.1	7154.0
7.5°	7185.6	7190.1	7217.1	7226.2	7244.2	7226.2	7253.2	7302.8	7289.3	7212.6	7221.7
10°	7365.9	7374.9	7379.4	7429.0	7460.6	7465.1	7433.5	7388.4	7383.9	7487.6	7415.5
12.5°	7573.3	7550.7	7604.8	7622.9	7658.9	7699.5	7740.1	7645.4	7704.0	7708.5	7622.9
15°	7875.3	7897.8	7834.7	7834.7	7848.2	7852.8	7965.5	7920.4	7911.4	7861.8	7897.8
17.5°	8326.1	8172.8	8168.3	8105.2	8096.2	8132.2	8172.8	8208.9	8330.6	8231.4	8037.6
20°	8655.2	8691.2	8560.5	8483.9	8497.4	8578.5	8538.0	8700.2	8785.9	8623.6	8434.3
22.5°	9236.7	9115.0	9146.5	8975.2	8988.7	9074.4	9069.9	9236.7	9286.3	9029.3	8754.3
25°	9628.9	9597.3	9624.4	9489.1	9507.2	9574.8	9683.0	9957.9	9876.8	9592.8	8957.2
27.5°	10201.4	10138.3	10115.7	10066.1	10048.1	10228.4	10354.6	10647.7	10589.0	10174.3	9317.8
30°	10787.4	10746.8	10769.4	10566.5	10638.6	11021.8	11057.9	11459.1	11432.0	10701.7	9719.0
32.5°	11193.1	11215.6	11256.2	11143.5	11463.6	11770.1	11891.8	12347.1	12369.7	11607.8	10494.4
35°	11846.8	11770.1	11792.7	11923.4	12072.1	12631.1	12829.5	13131.5	13320.8	12559.0	11238.2
37.5°	12257.0	12338.1	12243.4	12450.8	12838.5	13510.2	13690.5	14001.5	14199.9	13496.6	12252.5
40°	12897.1	12766.4	12834.0	12982.7	13379.4	14254.0	14204.4	14524.4	14587.6	14294.5	13199.1
42.5°	13586.8	13523.7	13429.0	13767.1	14100.7	14736.3	14835.5	14686.7	15006.8	15074.4	14551.5
45°	14411.7	14488.4	14501.9	14510.9	14803.9	15358.4	15223.2	15092.4	15462.1	15953.4	15390.0
47.5°	15178.1	14934.7	15110.5	15353.9	15768.6	15773.1	15930.9	15619.9	16012.0	16449.3	16147.3
50°	15435.0	15317.8	15552.2	16012.0	16652.2	16719.8	16737.8	16296.0	16498.9	16846.0	16408.7
52.5°	15335.9	15295.3	15894.8	16607.1	17544.7	17887.3	17977.5	17432.0	17544.7	17387.0	16985.8
55°	14862.5	14984.2	15588.3	17039.9	18477.9	19537.2	19708.5	19018.8	18302.1	18423.8	17982.0
56°	14213.4	14001.5	14677.7	16548.5	18437.3	20073.7	20213.4	19352.4	18865.5	18707.8	17973.0
57.5°	12058.6	11783.6	12671.7	14889.6	17414.0	19870.8	19974.5	19492.1	18770.9	18450.8	16661.2
60°	7059.4	7194.6	8321.6	10269.0	13433.5	16291.5	16638.6	16990.3	16507.9	15074.4	12401.2
62.5°	3408.0	3322.3	4129.2	5887.3	8186.3	10399.7	10296.0	11283.3	11824.2	10710.8	7830.2
65°	1785.1	1776.1	2253.9	3214.1	4498.9	5463.6	5558.2	6090.2	6834.0	5517.7	3976.0
67.5°	1311.8	1347.9	1586.8	2258.5	2894.1	2952.7	2939.1	3205.1	3277.2	2772.4	2443.3
70°	1027.8	1045.8	1221.6	1717.5	2154.8	1929.4	1888.8	1920.4	2132.2	2222.4	2114.2
72.5°	743.8	761.8	910.6	1158.5	1347.9	1316.3	1343.4	1519.2	1780.6	1875.3	1762.6
75°	495.9	509.4	590.5	707.7	797.9	861.0	910.6	1113.5	1356.9	1411.0	1356.9
77.5°	342.6	356.1	410.2	500.4	509.4	550.0	568.0	662.7	811.4	879.0	843.0
80°	193.8	193.8	220.9	257.0	315.6	369.6	378.7	455.3	522.9	568.0	577.0
82.5°	90.2	94.7	117.2	157.8	207.4	257.0	266.0	315.6	365.1	410.2	423.7
85°	45.1	49.6	67.6	94.7	126.2	153.3	148.8	153.3	162.3	153.3	157.8
87.5°	13.5	13.5	18.0	22.5	18.0	22.5	22.5	27.0	31.6	36.1	40.6
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°	7099.9	7099.9	7099.9	7099.9	7099.9	7099.9	7099.9	7099.9	7099.9	7099.9	7099.9
2.5°	7140.5	7154.0	7063.9	7149.5	7118.0	7113.5	7176.6	7167.6	7190.1	7181.1	7127.0
5°	7145.0	7113.5	7208.1	7122.5	7163.0	7248.7	7190.1	7325.3	7257.7	7302.8	7203.6
7.5°	7284.8	7293.8	7275.7	7311.8	7293.8	7334.3	7302.8	7334.3	7280.3	7284.8	7374.9
10°	7406.5	7379.4	7411.0	7365.9	7397.5	7383.9	7311.8	7289.3	7307.3	7284.8	7343.4
12.5°	7631.9	7582.3	7559.7	7505.6	7469.6	7334.3	7221.7	7158.5	7244.2	7257.7	7230.7
15°	7861.8	7866.3	7762.6	7640.9	7415.5	7212.6	7239.7	7262.2	7262.2	7298.3	7230.7
17.5°	8006.0	8006.0	7911.4	7667.9	7438.0	7320.8	7293.8	7221.7	7158.5	7149.5	7145.0
20°	8258.5	8181.8	7965.5	7663.4	7429.0	7374.9	7172.1	7000.8	6870.0	6825.0	6820.4
22.5°	8547.0	8353.1	8051.1	7672.4	7415.5	7338.9	6960.2	6703.2	6468.8	6369.7	6383.2
25°	8812.9	8501.9	8100.7	7631.9	7365.9	6996.3	6572.5	6216.4	5973.0	5891.8	5851.3
27.5°	8997.8	8659.7	8100.7	7667.9	7181.1	6613.1	6180.3	5725.0	5513.2	5459.1	5468.1
30°	9245.7	8858.0	8240.4	7591.3	6811.4	6117.2	5598.8	5301.3	5175.1	5130.0	5161.5
32.5°	9827.2	9376.4	8434.3	7406.5	6374.2	5621.3	5202.1	5035.3	4850.5	4760.3	4728.8
35°	10458.3	9867.8	8623.6	7095.4	5882.8	5170.6	4909.1	4755.8	4534.9	4435.8	4453.8
37.5°	11350.9	10498.9	8637.1	6581.5	5350.9	4918.1	4679.2	4440.3	4260.0	4106.7	4061.6
40°	12554.5	11359.9	8605.6	6040.6	4922.6	4620.6	4444.8	4147.3	3944.4	3836.2	3858.8
42.5°	13613.8	12369.7	8474.8	5427.5	4534.9	4417.7	4219.4	3926.4	3728.0	3615.3	3606.3
45°	14506.4	13113.5	8226.9	4904.6	4210.4	4192.3	3962.4	3737.0	3579.3	3475.6	3520.7
47.5°	15331.4	13713.0	7852.8	4381.7	3912.9	3948.9	3728.0	3588.3	3489.1	3394.4	3389.9
50°	15628.9	13704.0	7523.7	3948.9	3673.9	3655.9	3646.9	3498.1	3394.4	3313.3	3349.4
52.5°	16124.7	13857.3	7167.6	3651.4	3457.6	3462.1	3493.6	3385.4	3268.2	3218.6	3263.7
55°	16837.0	13879.8	6383.2	3304.3	3277.2	3308.8	3308.8	3236.7	3137.5	3096.9	3074.4
56°	16255.5	13208.1	5725.0	3214.1	3187.1	3187.1	3272.7	3191.6	3069.9	3038.3	3011.3
57.5°	14993.3	11571.8	4791.9	3105.9	3065.4	3128.5	3173.6	3087.9	2975.2	2930.1	2957.2
60°	10341.1	7830.2	3601.8	2871.5	2871.5	2975.2	3011.3	2885.1	2835.5	2831.0	2794.9
62.5°	6036.1	4562.0	2817.4	2659.7	2668.7	2754.3	2781.4	2709.2	2646.1	2722.8	2758.8
65°	3200.6	2722.8	2416.2	2434.3	2438.8	2506.4	2623.6	2619.1	2614.6	2637.1	2641.6
67.5°	2317.1	2263.0	2195.3	2177.3	2186.3	2235.9	2353.1	2443.3	2438.8	2384.7	2344.1
70°	2064.6	1988.0	1947.4	1951.9	1915.9	1974.5	2069.1	2127.7	2024.0	1960.9	1933.9
72.5°	1717.5	1695.0	1667.9	1672.4	1600.3	1586.8	1478.6	1478.6	1451.5	1433.5	1465.1
75°	1311.8	1302.8	1316.3	1293.8	1217.1	1136.0	1072.9	1014.3	924.1	888.1	870.0
77.5°	829.5	856.5	888.1	838.5	806.9	748.3	685.2	626.6	554.5	513.9	513.9
80°	563.5	586.0	608.6	599.6	563.5	509.4	459.8	396.7	347.1	315.6	311.0
82.5°	428.3	446.3	477.8	441.8	405.7	360.6	320.1	275.0	229.9	193.8	193.8
85°	153.3	175.8	193.8	211.9	225.4	229.9	198.3	162.3	130.7	103.7	99.2
87.5°	40.6	45.1	49.6	45.1	45.1	45.1	49.6	45.1	40.6	31.6	31.6
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)