

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: P531468

Luminaire Tested: **GALN-SA6D-730-U-T3-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P531468
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-SA6D-730-U-T3-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 3000K, 1200mA 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: 35619 lumens
Efficiency: N/A
Efficacy: 96.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G3

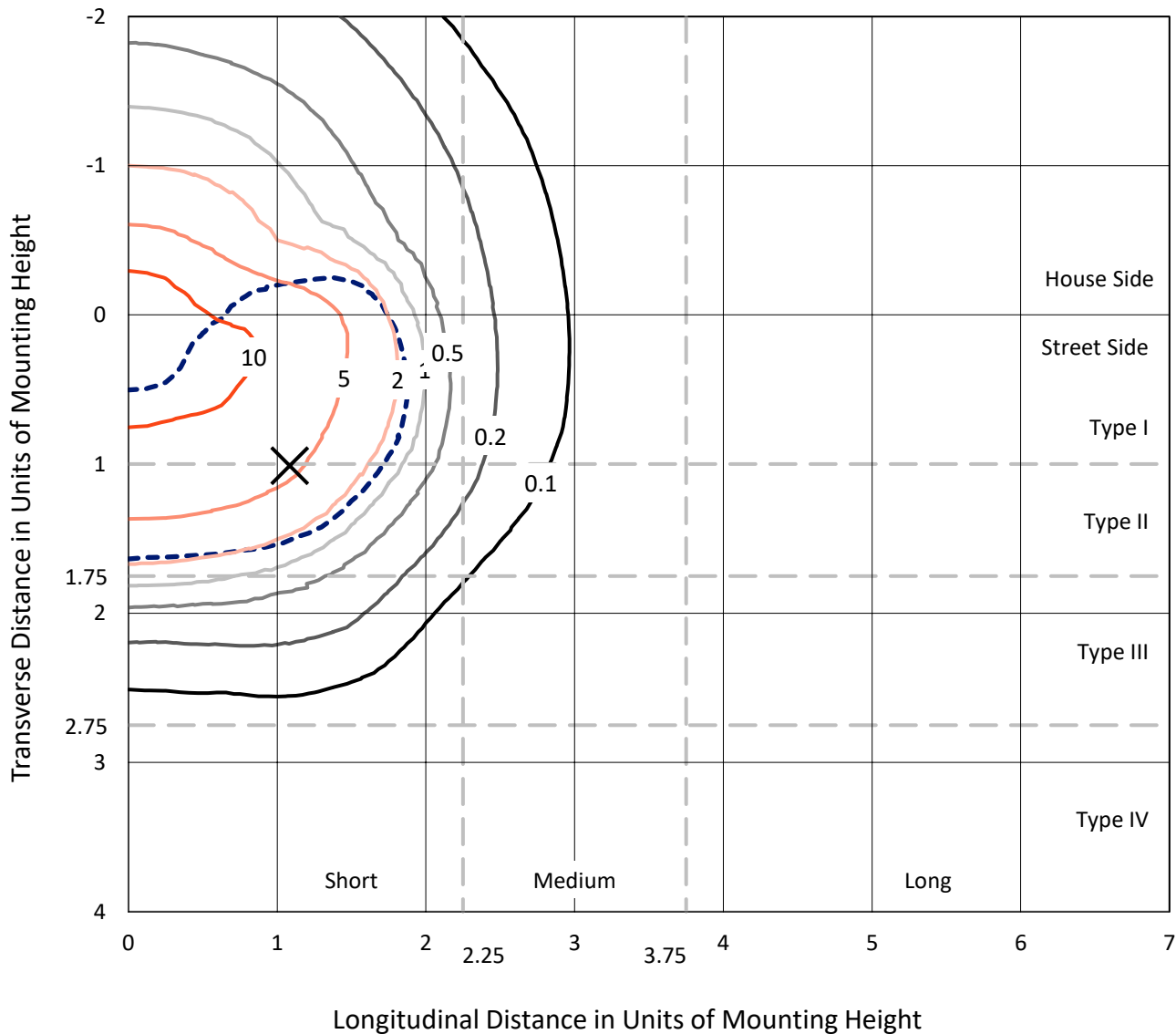
Input Watts (W): 368
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

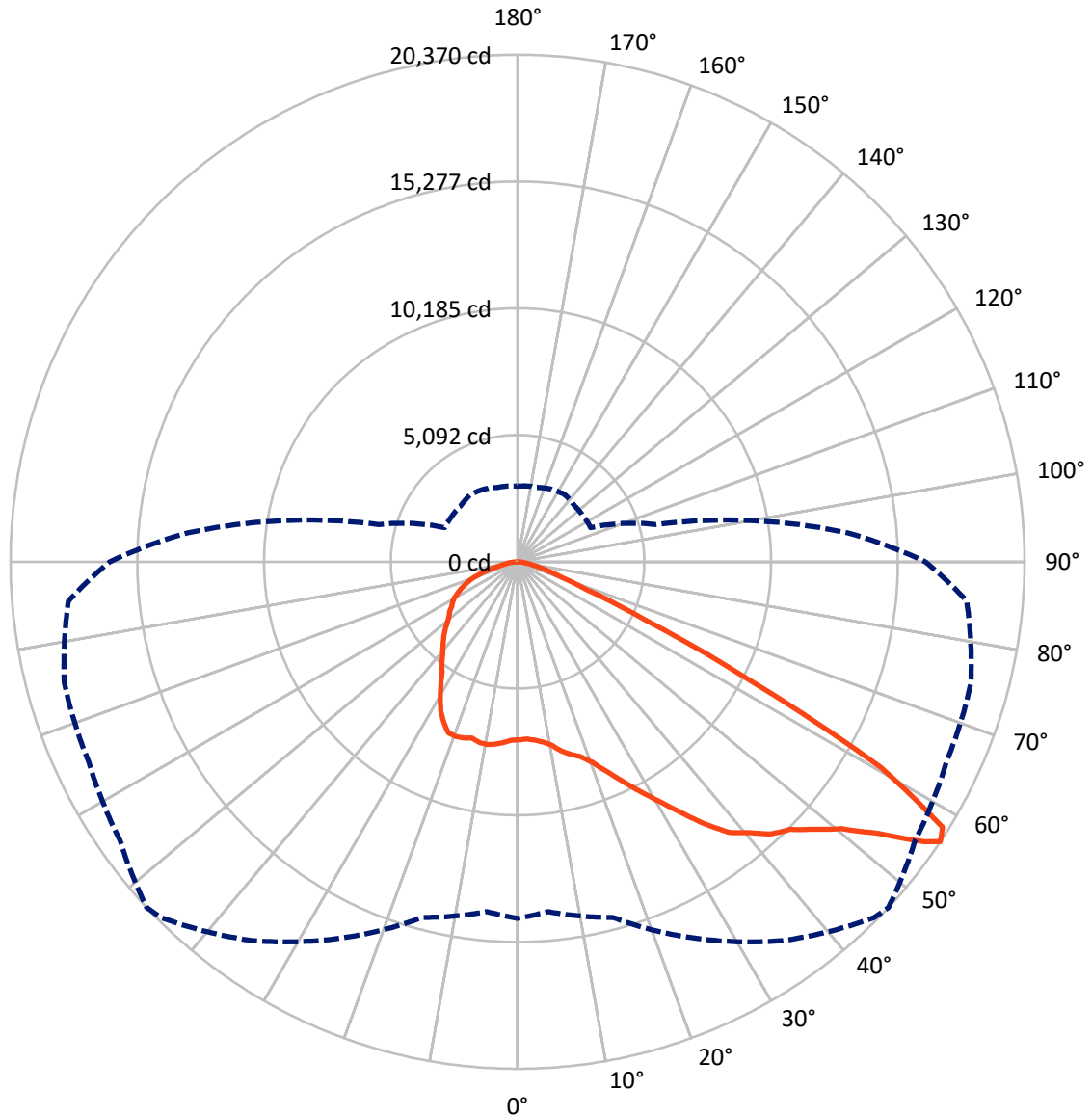
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12 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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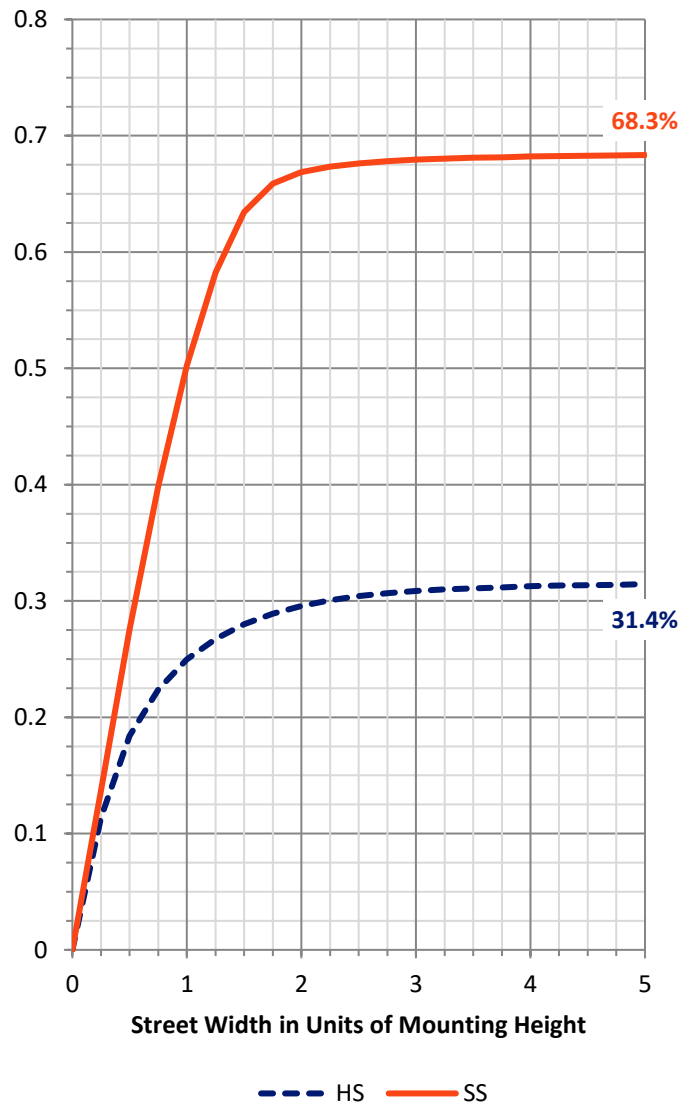
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11287.2	0.0	11287.2
	% Fixture	31.7	0.0	31.7
Street Side	Lumens	24331.8	0.0	24331.8
	% Fixture	68.3	0.0	68.3
Total	Lumens	35619.0	0.0	35619.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	697.1	2.0
10°-20°	2199.1	6.2
20°-30°	3887.5	10.9
30°-40°	5838.9	16.4
40°-50°	8013.3	22.5
50°-60°	9546.8	26.8
60°-70°	4085.5	11.5
70°-80°	1156.2	3.2
80°-90°	194.6	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°	35619.0	100.0
0°-180°	35619.0	100.0

Coefficient of Utilization



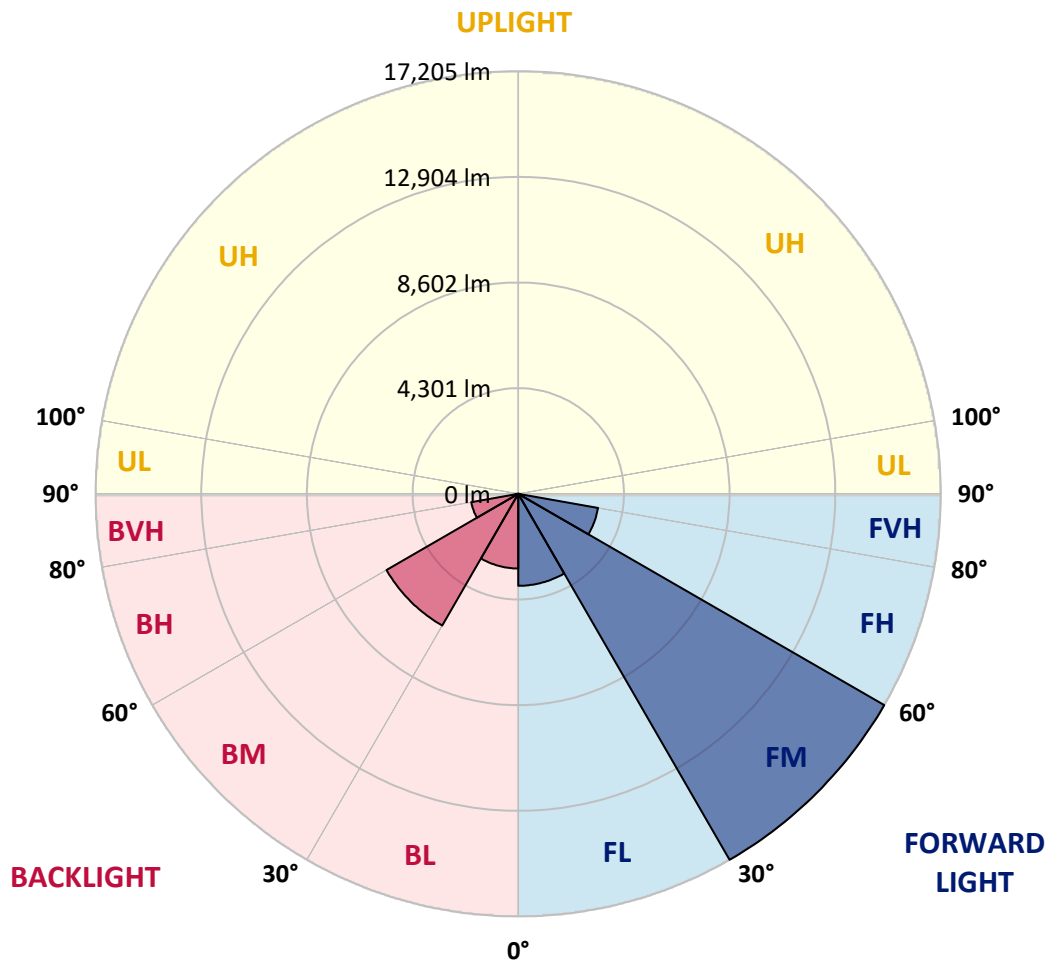
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3744.8	10.5			
FM (30°-60°)	17204.8	48.3			
FH (60°-80°)	3299.6	9.3			G2/5000
FVH (80°-90°)	82.6	0.2			G1/100
BL (0°-30°)	3039.0	8.5	B4/5000		
BM (30°-60°)	6194.2	17.4	B4/8500		
BH (60°-80°)	1942.0	5.5	B3/2500		G3/2500
BVH (80°-90°)	112.0	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°	7154.8	7154.8	7154.8	7154.8	7154.8	7154.8	7154.8	7154.8	7154.8	7154.8	7154.8
2.5°	7127.5	7113.9	7104.8	7177.5	7150.2	7154.8	7127.5	7154.8	7172.9	7132.1	7191.1
5°	7113.9	7154.8	7118.4	7141.1	7200.2	7182.0	7200.2	7254.7	7241.1	7227.5	7209.3
7.5°	7241.1	7245.6	7272.9	7282.0	7300.1	7282.0	7309.2	7359.2	7345.6	7268.3	7277.4
10°	7422.8	7431.9	7436.4	7486.4	7518.2	7522.7	7490.9	7445.5	7441.0	7545.4	7472.8
12.5°	7631.8	7609.0	7663.6	7681.7	7718.1	7759.0	7799.8	7704.4	7763.5	7768.0	7681.7
15°	7936.1	7958.8	7895.2	7895.2	7908.9	7913.4	8027.0	7981.5	7972.5	7922.5	7958.8
17.5°	8390.4	8235.9	8231.4	8167.8	8158.7	8195.1	8235.9	8272.3	8394.9	8295.0	8099.7
20°	8722.0	8758.4	8626.6	8549.4	8563.0	8644.8	8603.9	8767.4	8853.8	8690.2	8499.4
22.5°	9308.0	9185.4	9217.2	9044.5	9058.2	9144.5	9139.9	9308.0	9358.0	9099.1	8822.0
25°	9703.2	9671.4	9698.7	9562.4	9580.6	9648.7	9757.8	10034.9	9953.1	9666.9	9026.4
27.5°	10280.2	10216.6	10193.9	10143.9	10125.7	10307.4	10434.6	10729.9	10670.8	10252.9	9389.8
30°	10870.7	10829.8	10852.5	10648.1	10720.8	11106.9	11143.3	11547.6	11520.3	10784.4	9794.1
32.5°	11279.6	11302.3	11343.2	11229.6	11552.1	11861.0	11983.7	12442.5	12465.2	11697.5	10575.4
35°	11938.3	11861.0	11883.7	12015.5	12165.4	12728.7	12928.6	13232.9	13423.7	12656.0	11325.0
37.5°	12351.6	12433.4	12338.0	12547.0	12937.7	13614.5	13796.2	14109.7	14309.5	13600.9	12347.1
40°	12996.7	12865.0	12933.1	13083.0	13482.8	14364.1	14314.1	14636.6	14700.2	14404.9	13301.1
42.5°	13691.7	13628.1	13532.7	13873.4	14209.6	14850.1	14950.1	14800.2	15122.7	15190.8	14663.9
45°	14523.1	14600.3	14613.9	14623.0	14918.3	15477.0	15340.7	15209.0	15581.5	16076.7	15508.8
47.5°	15295.3	15050.0	15227.2	15472.5	15890.4	15895.0	16054.0	15740.5	16135.7	16576.4	16272.0
50°	15554.3	15436.1	15672.4	16135.7	16780.8	16848.9	16867.1	16421.9	16626.3	16976.1	16535.5
52.5°	15454.3	15413.4	16017.6	16735.4	17680.2	18025.5	18116.3	17566.7	17680.2	17521.2	17116.9
55°	14977.3	15100.0	15708.7	17171.5	18620.6	19688.1	19860.7	19165.7	18443.4	18566.1	18120.9
56°	14323.2	14109.7	14791.1	16676.3	18579.7	20228.7	20369.5	19501.9	19011.3	18852.3	18111.8
57.5°	12151.8	11874.7	12769.6	15004.6	17548.5	20024.3	20128.8	19642.7	18915.9	18593.3	16789.9
60°	7113.9	7250.2	8385.9	10348.3	13537.3	16417.4	16767.2	17121.5	16635.4	15190.8	12497.0
62.5°	3434.3	3348.0	4161.1	5932.8	8249.6	10480.0	10375.6	11370.4	11915.5	10793.5	7890.7
65°	1798.9	1789.8	2271.4	3239.0	4533.6	5505.8	5601.2	6137.2	6886.8	5560.3	4006.7
67.5°	1321.9	1358.3	1599.0	2275.9	2916.4	2975.5	2961.8	3229.9	3302.6	2793.8	2462.2
70°	1035.7	1053.9	1231.1	1730.8	2171.4	1944.3	1903.4	1935.2	2148.7	2239.6	2130.5
72.5°	749.5	767.7	917.6	1167.5	1358.3	1326.5	1353.7	1530.9	1794.4	1889.8	1776.2
75°	499.7	513.3	595.1	713.2	804.1	867.7	917.6	1122.1	1367.4	1421.9	1367.4
77.5°	345.2	358.9	413.4	504.2	513.3	554.2	572.4	667.8	817.7	885.8	849.5
80°	195.3	195.3	222.6	258.9	318.0	372.5	381.6	458.8	527.0	572.4	581.5
82.5°	90.9	95.4	118.1	159.0	209.0	258.9	268.0	318.0	368.0	413.4	427.0
85°	45.4	50.0	68.1	95.4	127.2	154.5	149.9	154.5	163.5	154.5	159.0
87.5°	13.6	13.6	18.2	22.7	18.2	22.7	22.7	27.3	31.8	36.3	40.9
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°	7154.8	7154.8	7154.8	7154.8	7154.8	7154.8	7154.8	7154.8	7154.8	7154.8	7154.8
2.5°	7195.7	7209.3	7118.4	7204.7	7172.9	7168.4	7232.0	7222.9	7245.6	7236.5	7182.0
5°	7200.2	7168.4	7263.8	7177.5	7218.4	7304.7	7245.6	7381.9	7313.8	7359.2	7259.3
7.5°	7341.0	7350.1	7331.9	7368.3	7350.1	7391.0	7359.2	7391.0	7336.5	7341.0	7431.9
10°	7463.7	7436.4	7468.2	7422.8	7454.6	7441.0	7368.3	7345.6	7363.7	7341.0	7400.1
12.5°	7690.8	7640.8	7618.1	7563.6	7527.3	7391.0	7277.4	7213.8	7300.1	7313.8	7286.5
15°	7922.5	7927.0	7822.6	7699.9	7472.8	7268.3	7295.6	7318.3	7318.3	7354.7	7286.5
17.5°	8067.9	8067.9	7972.5	7727.2	7495.5	7377.4	7350.1	7277.4	7213.8	7204.7	7200.2
20°	8322.3	8245.0	8027.0	7722.6	7486.4	7431.9	7227.5	7054.8	6923.1	6877.7	6873.1
22.5°	8613.0	8417.6	8113.3	7731.7	7472.8	7395.5	7014.0	6755.0	6518.8	6418.9	6432.5
25°	8881.0	8567.6	8163.3	7690.8	7422.8	7050.3	6623.3	6264.4	6019.1	5937.3	5896.4
27.5°	9067.3	8726.6	8163.3	7727.2	7236.5	6664.2	6228.1	5769.2	5555.7	5501.2	5510.3
30°	9317.1	8926.4	8304.1	7649.9	6864.0	6164.5	5642.1	5342.2	5215.0	5169.6	5201.4
32.5°	9903.1	9448.8	8499.4	7463.7	6423.4	5664.8	5242.3	5074.2	4888.0	4797.1	4765.3
35°	10539.1	9944.0	8690.2	7150.2	5928.2	5210.5	4947.0	4792.6	4570.0	4470.0	4488.2
37.5°	11438.6	10580.0	8703.8	6632.4	5392.2	4956.1	4715.3	4474.6	4292.9	4138.4	4093.0
40°	12651.5	11447.6	8672.0	6087.2	4960.6	4656.3	4479.1	4179.3	3974.9	3865.8	3888.6
42.5°	13719.0	12465.2	8540.3	5469.4	4570.0	4451.9	4252.0	3956.7	3756.8	3643.3	3634.2
45°	14618.5	13214.8	8290.5	4942.5	4242.9	4224.7	3993.0	3765.9	3606.9	3502.4	3547.9
47.5°	15449.8	13818.9	7913.4	4415.5	3943.1	3979.4	3756.8	3616.0	3516.1	3420.7	3416.1
50°	15749.6	13809.9	7581.8	3979.4	3702.3	3684.1	3675.1	3525.1	3420.7	3338.9	3375.2
52.5°	16249.3	13964.3	7222.9	3679.6	3484.3	3488.8	3520.6	3411.6	3293.5	3243.5	3288.9
55°	16967.0	13987.0	6432.5	3329.8	3302.6	3334.4	3334.4	3261.7	3161.7	3120.8	3098.1
56°	16381.0	13310.2	5769.2	3239.0	3211.7	3211.7	3298.0	3216.2	3093.6	3061.8	3034.5
57.5°	15109.1	11661.1	4828.9	3129.9	3089.0	3152.6	3198.1	3111.8	2998.2	2952.8	2980.0
60°	10421.0	7890.7	3629.6	2893.7	2893.7	2998.2	3034.5	2907.3	2857.4	2852.8	2816.5
62.5°	6082.7	4597.2	2839.2	2680.2	2689.3	2775.6	2802.9	2730.2	2666.6	2743.8	2780.1
65°	3225.3	2743.8	2434.9	2453.1	2457.6	2525.7	2643.9	2639.3	2634.8	2657.5	2662.0
67.5°	2335.0	2280.4	2212.3	2194.1	2203.2	2253.2	2371.3	2462.2	2457.6	2403.1	2362.2
70°	2080.6	2003.3	1962.5	1967.0	1930.7	1989.7	2085.1	2144.2	2039.7	1976.1	1948.8
72.5°	1730.8	1708.1	1680.8	1685.3	1612.7	1599.0	1490.0	1490.0	1462.8	1444.6	1476.4
75°	1321.9	1312.8	1326.5	1303.8	1226.5	1144.8	1081.2	1022.1	931.3	894.9	876.7
77.5°	835.9	863.1	894.9	844.9	813.1	754.1	690.5	631.4	558.8	517.9	517.9
80°	567.8	590.6	613.3	604.2	567.8	513.3	463.4	399.8	349.8	318.0	313.4
82.5°	431.6	449.7	481.5	445.2	408.8	363.4	322.5	277.1	231.7	195.3	195.3
85°	154.5	177.2	195.3	213.5	227.1	231.7	199.9	163.5	131.7	104.5	99.9
87.5°	40.9	45.4	50.0	45.4	45.4	45.4	50.0	45.4	40.9	31.8	31.8
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)