

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: P650982

Luminaire Tested: **GALN-SA6C-840-U-T3-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P650982
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-SA6C-840-U-T3-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 4000K, 1050mA 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: 29892.5 lumens
Efficiency: N/A
Efficacy: 93.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G3

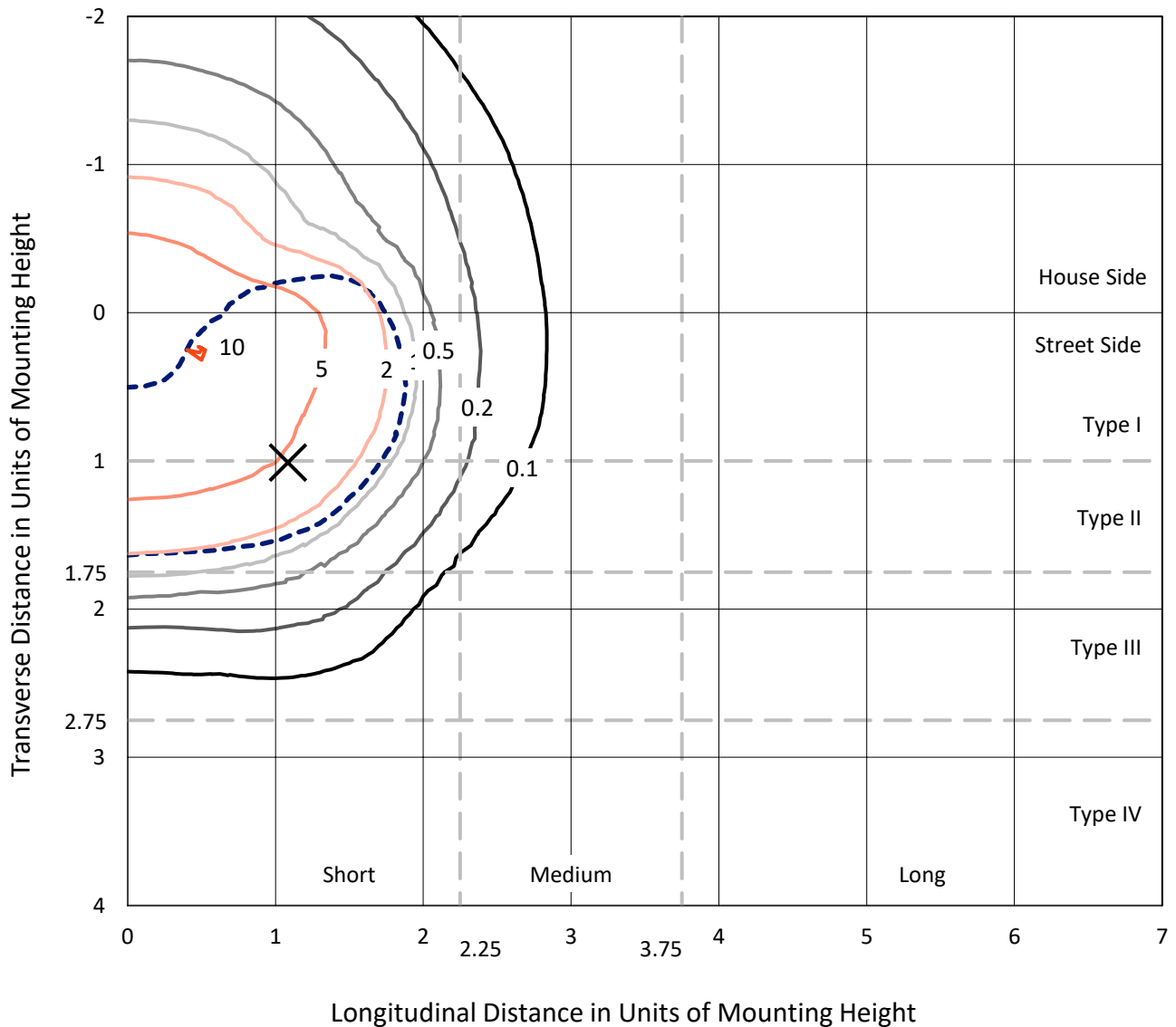
Input Watts (W): 321
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

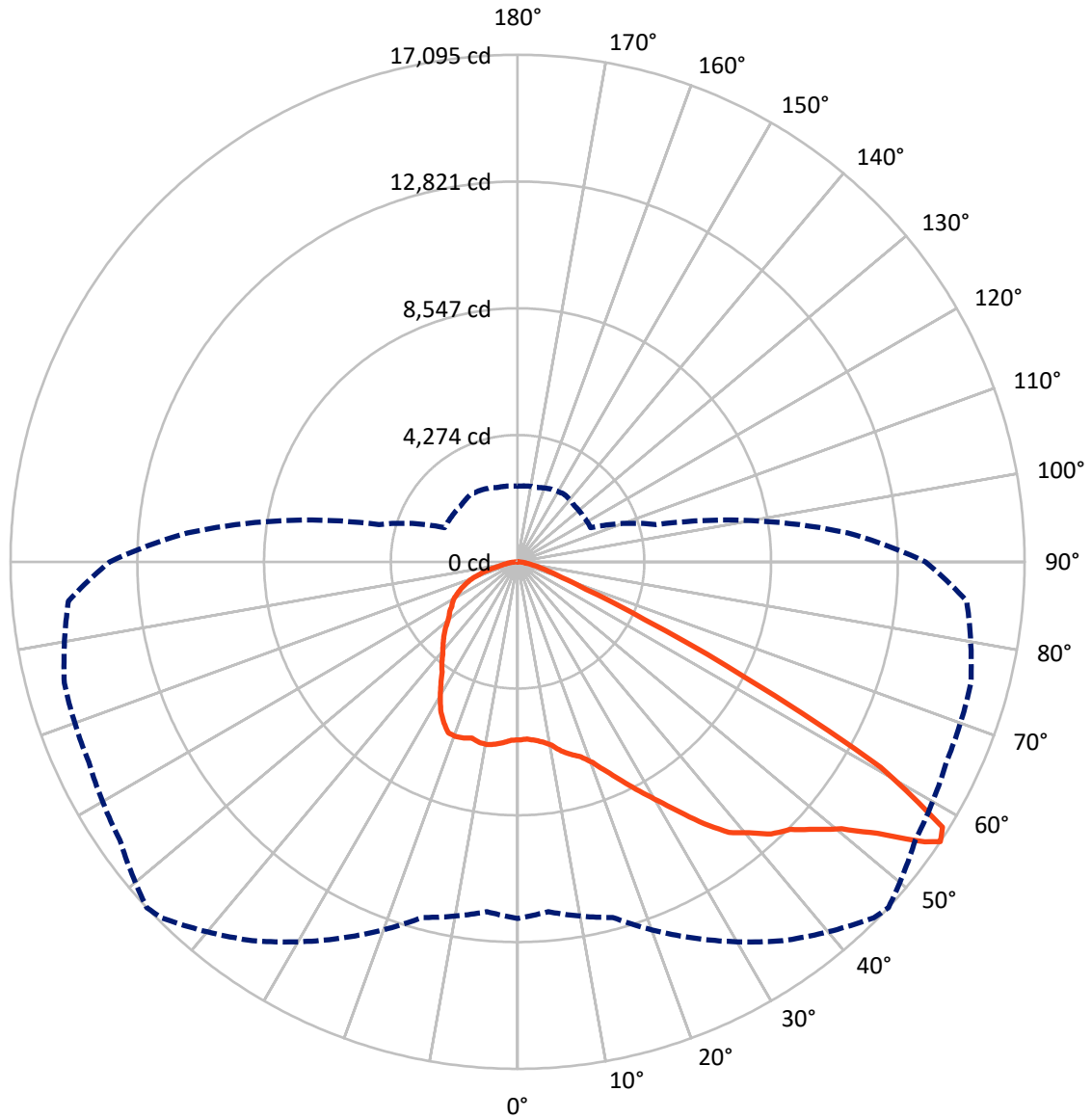
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.1 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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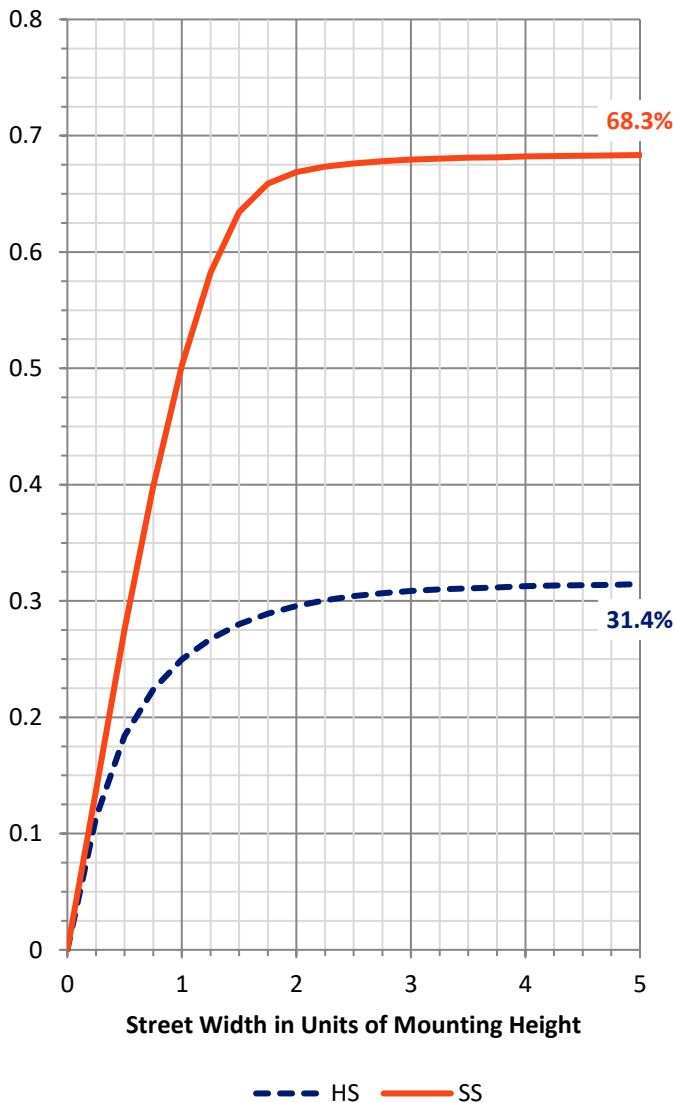
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9472.6	0.0	9472.6
	% Fixture	31.7	0.0	31.7
Street Side	Lumens	20419.9	0.0	20419.9
	% Fixture	68.3	0.0	68.3
Total	Lumens	29892.5	0.0	29892.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	585.1	2.0
10°-20°	1845.6	6.2
20°-30°	3262.5	10.9
30°-40°	4900.2	16.4
40°-50°	6725.0	22.5
50°-60°	8012.0	26.8
60°-70°	3428.6	11.5
70°-80°	970.3	3.2
80°-90°	163.3	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°	29892.5	100.0
0°-180°	29892.5	100.0

Coefficient of Utilization

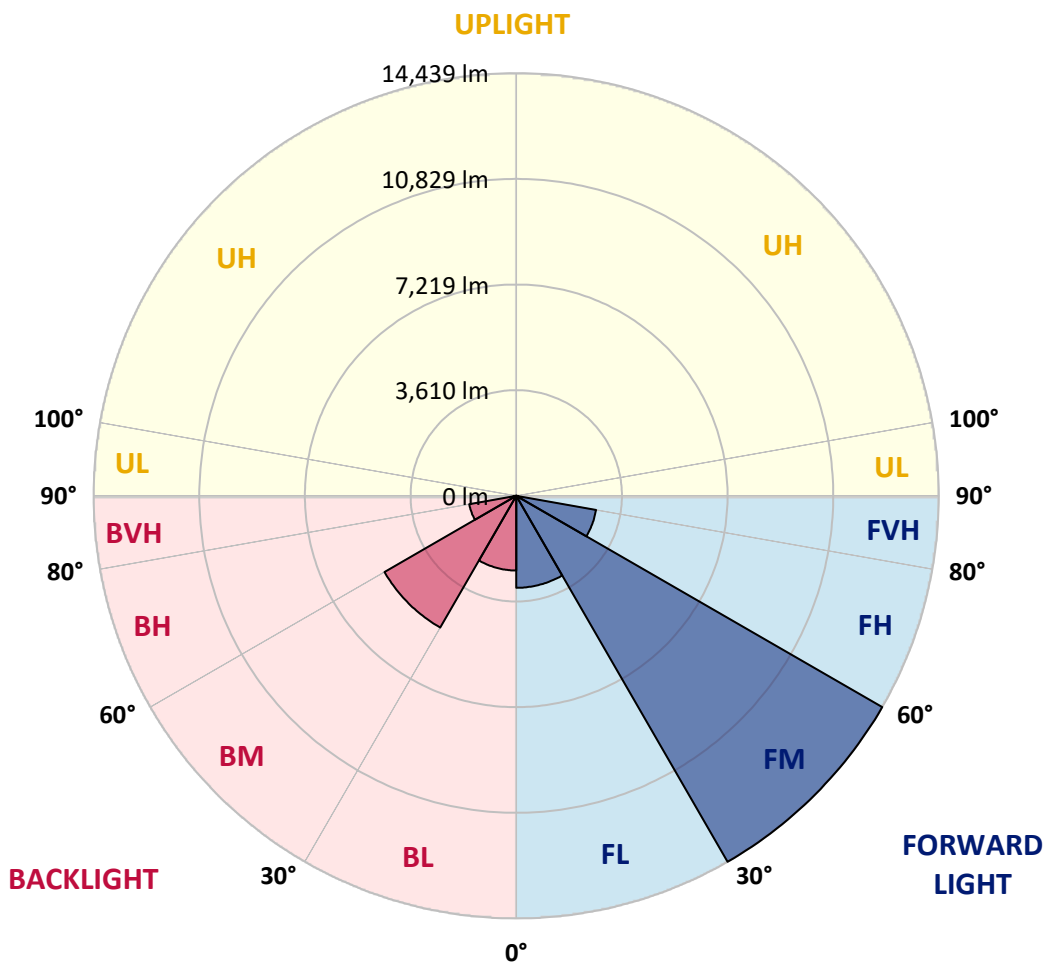


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3142.7	10.5			
FM (30°-60°)	14438.8	48.3			
FH (60°-80°)	2769.1	9.3			G2/5000
FVH (80°-90°)	69.3	0.2			G1/100
BL (0°-30°)	2550.4	8.5	B4/5000		
BM (30°-60°)	5198.4	17.4	B4/8500		
BH (60°-80°)	1629.8	5.5	B3/2500		G3/2500
BVH (80°-90°)	94.0	0.3			G1/100
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°	6004.5	6004.5	6004.5	6004.5	6004.5	6004.5	6004.5	6004.5	6004.5	6004.5	6004.5
2.5°	5981.6	5970.2	5962.5	6023.6	6000.7	6004.5	5981.6	6004.5	6019.7	5985.4	6035.0
5°	5970.2	6004.5	5974.0	5993.1	6042.6	6027.4	6042.6	6088.3	6076.9	6065.5	6050.2
7.5°	6076.9	6080.8	6103.6	6111.2	6126.5	6111.2	6134.1	6176.1	6164.6	6099.8	6107.4
10°	6229.5	6237.0	6240.9	6282.8	6309.5	6313.3	6286.6	6248.5	6244.7	6332.4	6271.3
12.5°	6404.8	6385.7	6431.5	6446.8	6477.2	6511.5	6545.8	6465.8	6515.4	6519.2	6446.8
15°	6660.2	6679.3	6625.9	6625.9	6637.3	6641.1	6736.5	6698.3	6690.7	6648.8	6679.3
17.5°	7041.4	6911.8	6908.1	6854.7	6847.0	6877.5	6911.8	6942.4	7045.3	6961.4	6797.5
20°	7319.7	7350.3	7239.7	7174.9	7186.3	7255.0	7220.7	7357.9	7430.3	7293.1	7132.9
22.5°	7811.5	7708.6	7735.3	7590.4	7601.9	7674.3	7670.5	7811.5	7853.5	7636.2	7403.7
25°	8143.2	8116.6	8139.5	8025.1	8040.3	8097.5	8189.0	8421.5	8352.9	8112.7	7575.2
27.5°	8627.4	8574.1	8555.0	8513.0	8497.8	8650.3	8757.0	9004.8	8955.3	8604.5	7880.2
30°	9123.0	9088.7	9107.8	8936.2	8997.2	9321.2	9351.8	9691.1	9668.2	9050.6	8219.5
32.5°	9466.1	9485.2	9519.5	9424.2	9694.9	9954.2	10057.0	10442.1	10461.2	9816.9	8875.2
35°	10018.9	9954.2	9973.2	10083.8	10209.6	10682.3	10850.0	11105.5	11265.6	10621.3	9504.2
37.5°	10365.8	10434.5	10354.4	10529.8	10857.6	11425.7	11578.2	11841.3	12009.0	11414.2	10362.0
40°	10907.2	10796.7	10853.9	10979.7	11315.2	12054.7	12012.8	12283.5	12336.9	12089.0	11162.7
42.5°	11490.5	11437.1	11357.1	11643.0	11925.1	12462.7	12546.5	12420.7	12691.4	12748.6	12306.4
45°	12188.2	12252.9	12264.4	12272.0	12519.9	12988.7	12874.4	12763.9	13076.5	13492.0	13015.5
47.5°	12836.3	12630.4	12779.1	12985.0	13335.7	13339.5	13472.9	13209.9	13541.5	13911.4	13655.9
50°	13053.6	12954.4	13152.7	13541.5	14083.0	14140.1	14155.4	13781.7	13953.3	14246.9	13877.1
52.5°	12969.7	12935.4	13442.5	14044.8	14837.8	15127.5	15203.8	14742.5	14837.8	14704.4	14365.0
55°	12569.4	12672.4	13183.2	14410.8	15627.0	16522.9	16667.7	16084.5	15478.3	15581.2	15207.6
56°	12020.4	11841.3	12413.1	13995.2	15592.6	16976.5	17094.7	16366.5	15954.8	15821.4	15200.0
57.5°	10198.1	9965.6	10716.6	12592.3	14727.3	16804.9	16892.7	16484.7	15874.7	15604.1	14090.5
60°	5970.2	6084.6	7037.7	8684.6	11360.9	13777.9	14071.5	14368.8	13960.9	12748.6	10487.9
62.5°	2882.2	2809.7	3492.2	4979.0	6923.3	8795.2	8707.5	9542.4	9999.8	9058.2	6622.1
65°	1509.7	1502.1	1906.2	2718.2	3804.8	4620.6	4700.7	5150.5	5779.6	4666.4	3362.5
67.5°	1109.4	1139.9	1342.0	1910.0	2447.6	2497.1	2485.7	2710.6	2771.6	2344.6	2066.3
70°	869.3	884.5	1033.2	1452.5	1822.3	1631.7	1597.4	1624.1	1803.3	1879.5	1788.0
72.5°	629.1	644.3	770.1	979.8	1139.9	1113.2	1136.1	1284.8	1505.9	1586.0	1490.7
75°	419.3	430.8	499.4	598.5	674.8	728.1	770.1	941.7	1147.5	1193.3	1147.5
77.5°	289.7	301.2	346.9	423.2	430.8	465.1	480.4	560.4	686.3	743.4	712.9
80°	163.9	163.9	186.8	217.3	266.8	312.6	320.3	385.0	442.2	480.4	487.9
82.5°	76.3	80.1	99.2	133.5	175.3	217.3	225.0	266.8	308.8	346.9	358.4
85°	38.1	42.0	57.2	80.1	106.7	129.6	125.8	129.6	137.3	129.6	133.5
87.5°	11.4	11.4	15.2	19.1	15.2	19.1	19.1	22.9	26.7	30.5	34.3
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°	6004.5	6004.5	6004.5	6004.5	6004.5	6004.5	6004.5	6004.5	6004.5	6004.5	6004.5
2.5°	6038.8	6050.2	5974.0	6046.5	6019.7	6015.9	6069.3	6061.7	6080.8	6073.1	6027.4
5°	6042.6	6015.9	6096.0	6023.6	6057.9	6130.3	6080.8	6195.1	6138.0	6176.1	6092.2
7.5°	6160.8	6168.4	6153.2	6183.7	6168.4	6202.7	6176.1	6202.7	6157.0	6160.8	6237.0
10°	6263.8	6240.9	6267.6	6229.5	6256.1	6244.7	6183.7	6164.6	6179.8	6160.8	6210.4
12.5°	6454.3	6412.5	6393.4	6347.6	6317.1	6202.7	6107.4	6054.0	6126.5	6138.0	6115.1
15°	6648.8	6652.6	6564.9	6462.0	6271.3	6099.8	6122.6	6141.7	6141.7	6172.3	6115.1
17.5°	6770.8	6770.8	6690.7	6484.9	6290.4	6191.3	6168.4	6107.4	6054.0	6046.5	6042.6
20°	6984.3	6919.5	6736.5	6481.1	6282.8	6237.0	6065.5	5920.6	5810.0	5772.0	5768.2
22.5°	7228.3	7064.3	6808.9	6488.7	6271.3	6206.6	5886.3	5669.0	5470.8	5386.9	5398.3
25°	7453.2	7190.1	6850.9	6454.3	6229.5	5916.8	5558.4	5257.3	5051.4	4982.8	4948.4
27.5°	7609.5	7323.6	6850.9	6484.9	6073.1	5592.7	5226.7	4841.7	4662.5	4616.8	4624.4
30°	7819.2	7491.3	6969.0	6420.0	5760.5	5173.4	4735.0	4483.4	4376.6	4338.5	4365.2
32.5°	8311.0	7929.7	7132.9	6263.8	5390.7	4754.0	4399.5	4258.4	4102.1	4025.9	3999.2
35°	8844.7	8345.3	7293.1	6000.7	4975.2	4372.8	4151.7	4022.1	3835.2	3751.4	3766.7
37.5°	9599.6	8879.0	7304.5	5566.1	4525.3	4159.3	3957.2	3755.2	3602.7	3473.1	3435.0
40°	10617.5	9607.2	7277.8	5108.6	4163.1	3907.7	3759.0	3507.4	3335.8	3244.3	3263.4
42.5°	11513.4	10461.2	7167.3	4590.1	3835.2	3736.1	3568.4	3320.6	3152.8	3057.5	3049.9
45°	12268.3	11090.2	6957.6	4147.9	3560.8	3545.5	3351.0	3160.5	3027.0	2939.4	2977.5
47.5°	12965.9	11597.2	6641.1	3705.6	3309.2	3339.6	3152.8	3034.7	2950.8	2870.8	2866.9
50°	13217.5	11589.7	6362.8	3339.6	3107.1	3091.9	3084.2	2958.4	2870.8	2802.1	2832.6
52.5°	13636.9	11719.3	6061.7	3088.1	2924.1	2927.9	2954.6	2863.1	2763.9	2722.1	2760.2
55°	14239.2	11738.3	5398.3	2794.5	2771.6	2798.3	2798.3	2737.3	2653.4	2619.1	2600.0
56°	13747.4	11170.2	4841.7	2718.2	2695.3	2695.3	2767.8	2699.2	2596.3	2569.5	2546.6
57.5°	12680.0	9786.4	4052.5	2626.7	2592.4	2645.8	2683.9	2611.5	2516.2	2478.0	2500.9
60°	8745.6	6622.1	3046.1	2428.5	2428.5	2516.2	2546.6	2439.9	2398.0	2394.2	2363.7
62.5°	5104.8	3858.1	2382.7	2249.3	2256.9	2329.4	2352.3	2291.2	2237.9	2302.7	2333.2
65°	2706.8	2302.7	2043.5	2058.7	2062.5	2119.7	2218.8	2215.0	2211.2	2230.2	2234.0
67.5°	1959.5	1913.8	1856.6	1841.4	1849.0	1890.9	1990.1	2066.3	2062.5	2016.7	1982.4
70°	1746.1	1681.2	1646.9	1650.8	1620.3	1669.8	1749.9	1799.4	1711.8	1658.4	1635.5
72.5°	1452.5	1433.5	1410.6	1414.4	1353.4	1342.0	1250.5	1250.5	1227.6	1212.3	1239.0
75°	1109.4	1101.8	1113.2	1094.1	1029.4	960.8	907.4	857.8	781.5	751.0	735.8
77.5°	701.5	724.4	751.0	709.1	682.4	632.9	579.4	529.9	468.9	434.6	434.6
80°	476.5	495.6	514.7	507.0	476.5	430.8	388.9	335.5	293.6	266.8	263.1
82.5°	362.1	377.4	404.1	373.6	343.1	305.0	270.7	232.5	194.4	163.9	163.9
85°	129.6	148.7	163.9	179.2	190.7	194.4	167.8	137.3	110.6	87.7	83.8
87.5°	34.3	38.1	42.0	38.1	38.1	38.1	42.0	38.1	34.3	26.7	26.7
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)