

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: P531234

Luminaire Tested: **GALN-SA6C-730-U-T3-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P531234
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-730-U-T3-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 3000K, 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: 32371 lumens
Efficiency: N/A
Efficacy: 100.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G3

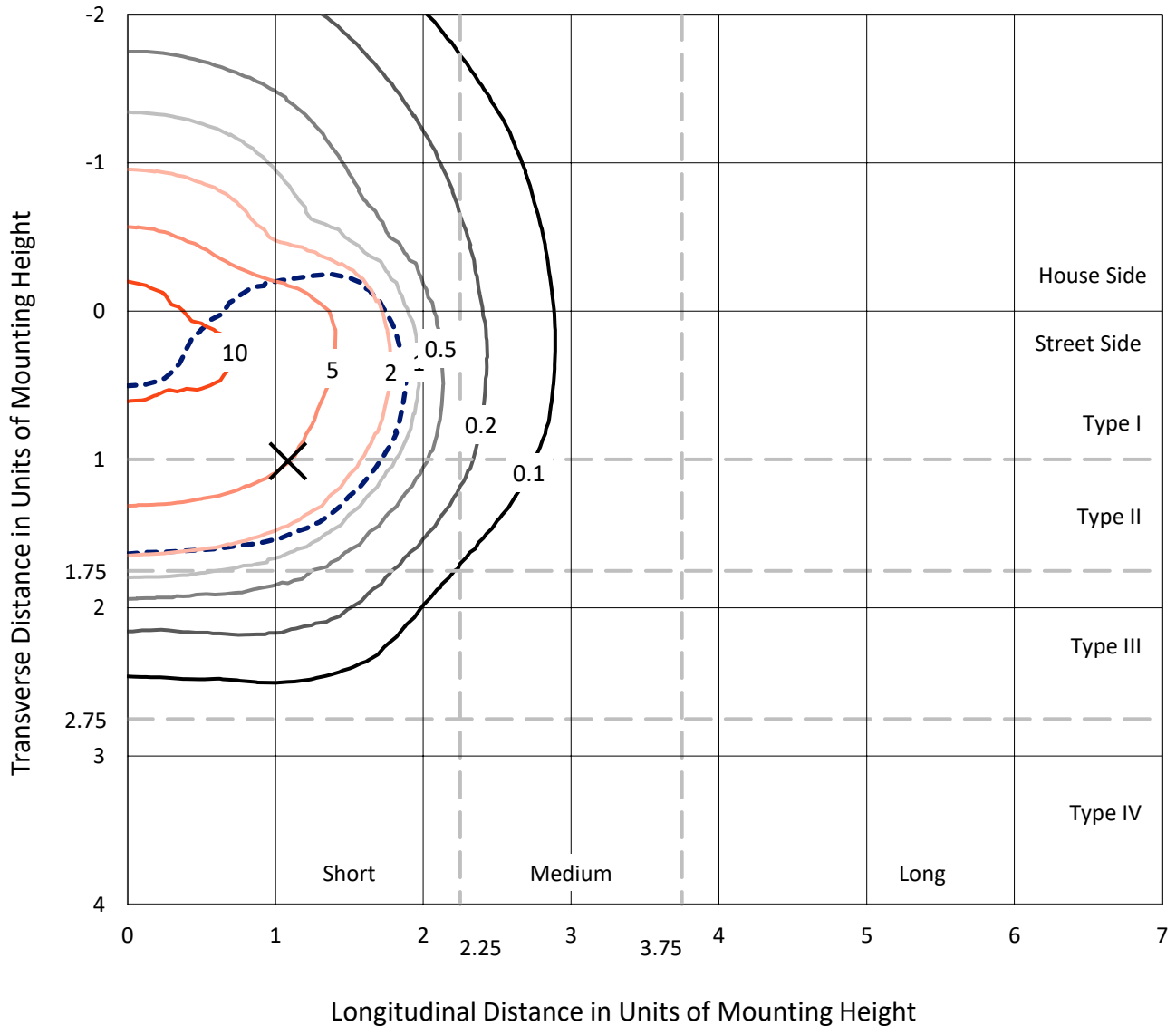
Input Watts (W): 321
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

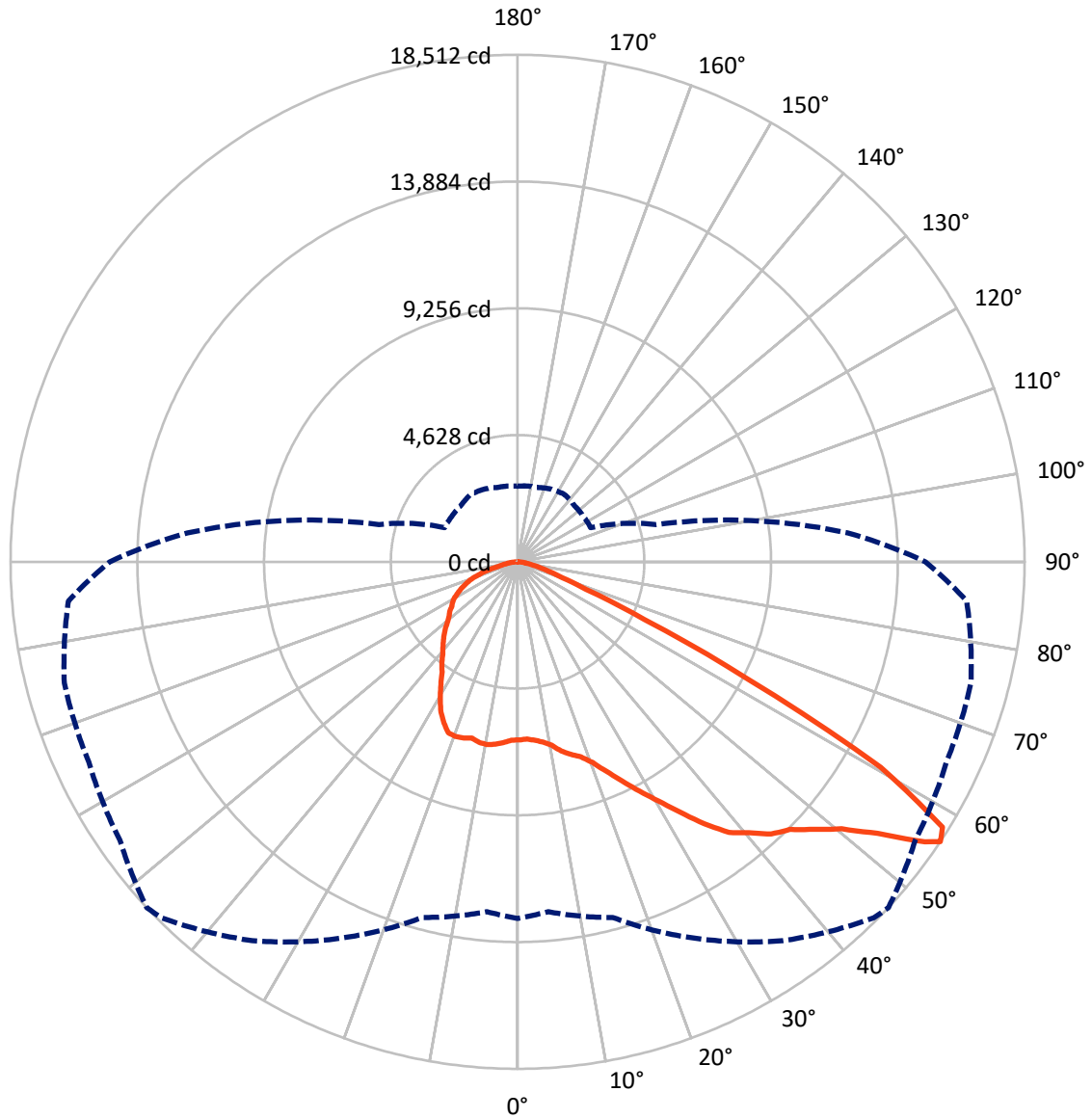
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.9 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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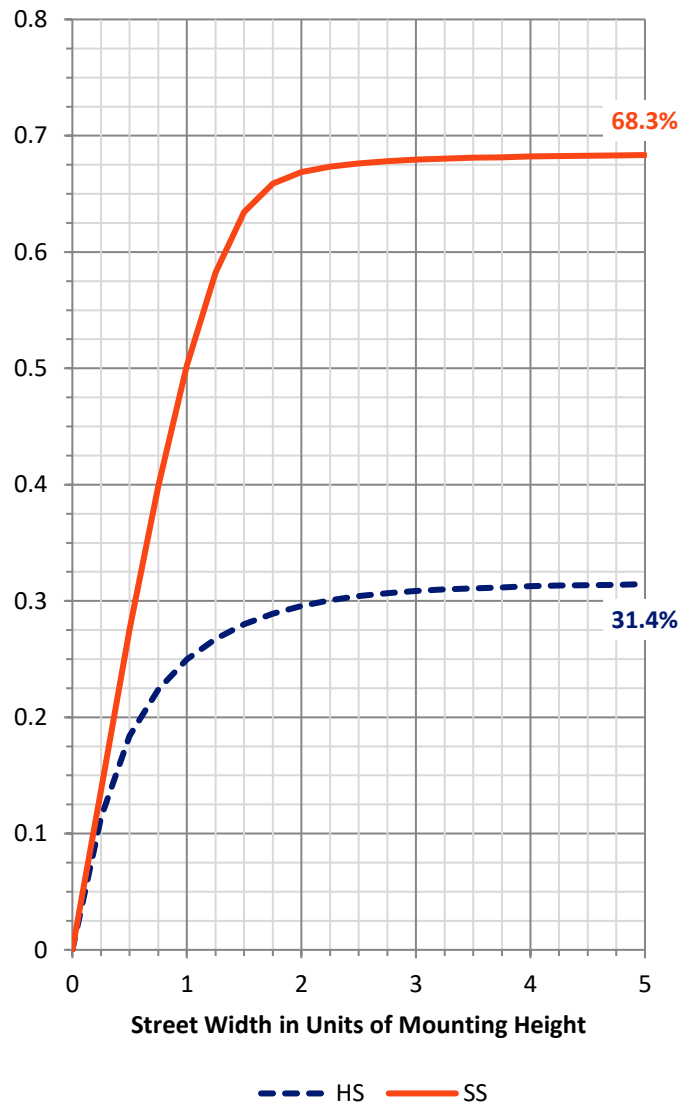
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10258.0	0.0	10258.0
	% Fixture	31.7	0.0	31.7
Street Side	Lumens	22113.0	0.0	22113.0
	% Fixture	68.3	0.0	68.3
Total	Lumens	32371.0	0.0	32371.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	633.6	2.0
10°-20°	1998.6	6.2
20°-30°	3533.0	10.9
30°-40°	5306.5	16.4
40°-50°	7282.6	22.5
50°-60°	8676.3	26.8
60°-70°	3712.9	11.5
70°-80°	1050.7	3.2
80°-90°	176.8	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°	32371.0	100.0
0°-180°	32371.0	100.0

Coefficient of Utilization



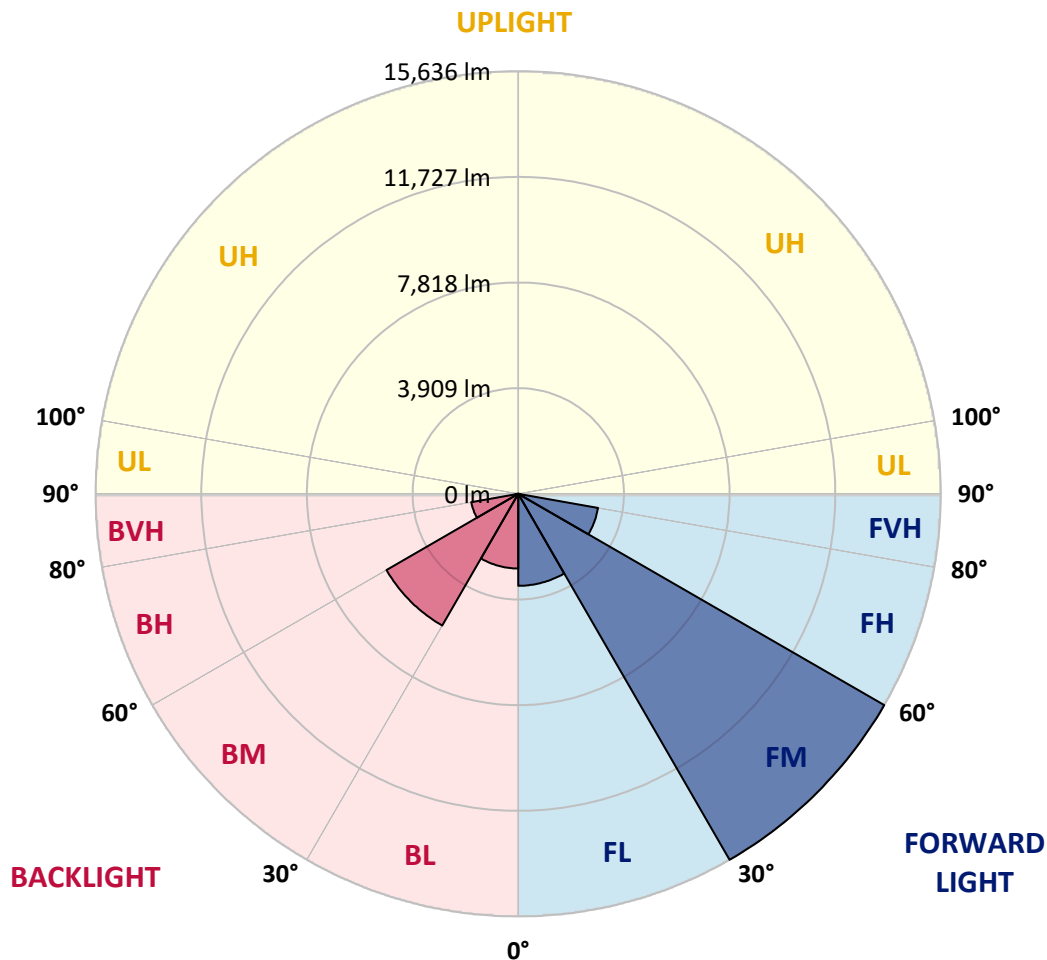
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3403.3	10.5			
FM (30°-60°)	15635.9	48.3			
FH (60°-80°)	2998.7	9.3			G2/5000
FVH (80°-90°)	75.1	0.2			G1/100
BL (0°-30°)	2761.9	8.5	B4/5000		
BM (30°-60°)	5629.4	17.4	B4/8500		
BH (60°-80°)	1764.9	5.5	B3/2500		G3/2500
BVH (80°-90°)	101.8	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°	6502.4	6502.4	6502.4	6502.4	6502.4	6502.4	6502.4	6502.4	6502.4	6502.4	6502.4
2.5°	6477.6	6465.2	6456.9	6523.0	6498.2	6502.4	6477.6	6502.4	6518.9	6481.7	6535.4
5°	6465.2	6502.4	6469.3	6490.0	6543.6	6527.1	6543.6	6593.2	6580.8	6568.4	6551.9
7.5°	6580.8	6584.9	6609.7	6617.9	6634.5	6617.9	6642.7	6688.1	6675.7	6605.6	6613.8
10°	6745.9	6754.2	6758.3	6803.7	6832.6	6836.8	6807.9	6766.6	6762.4	6857.4	6791.3
12.5°	6935.8	6915.2	6964.7	6981.3	7014.3	7051.4	7088.6	7001.9	7055.6	7059.7	6981.3
15°	7212.4	7233.1	7175.3	7175.3	7187.7	7191.8	7295.0	7253.7	7245.5	7200.1	7233.1
17.5°	7625.3	7484.9	7480.8	7423.0	7414.7	7447.8	7484.9	7518.0	7629.4	7538.6	7361.1
20°	7926.7	7959.7	7840.0	7769.8	7782.2	7856.5	7819.3	7968.0	8046.4	7897.8	7724.4
22.5°	8459.2	8347.8	8376.7	8219.8	8232.2	8310.6	8306.5	8459.2	8504.7	8269.3	8017.5
25°	8818.4	8789.5	8814.3	8690.4	8707.0	8768.9	8868.0	9119.8	9045.5	8785.4	8203.3
27.5°	9342.7	9284.9	9264.3	9218.9	9202.4	9367.5	9483.1	9751.5	9697.8	9318.0	8533.6
30°	9879.4	9842.3	9862.9	9677.1	9743.2	10094.1	10127.2	10494.6	10469.8	9801.0	8901.0
32.5°	10251.0	10271.6	10308.8	10205.6	10498.7	10779.5	10890.9	11307.9	11328.5	10630.8	9611.1
35°	10849.6	10779.5	10800.1	10919.8	11056.1	11568.0	11749.6	12026.3	12199.6	11501.9	10292.3
37.5°	11225.3	11299.6	11212.9	11402.9	11757.9	12373.0	12538.2	12823.0	13004.7	12360.7	11221.2
40°	11811.6	11691.8	11753.8	11890.0	12253.3	13054.2	13008.8	13302.0	13359.7	13091.4	12088.2
42.5°	12443.2	12385.4	12298.7	12608.4	12913.9	13496.0	13586.8	13450.6	13743.7	13805.6	13326.7
45°	13198.7	13268.9	13281.3	13289.6	13557.9	14065.7	13941.9	13822.1	14160.7	14610.7	14094.6
47.5°	13900.6	13677.6	13838.7	14061.6	14441.4	14445.5	14590.0	14305.2	14664.3	15064.8	14788.2
50°	14135.9	14028.6	14243.2	14664.3	15250.6	15312.5	15329.0	14924.4	15110.2	15428.1	15027.7
52.5°	14045.1	14007.9	14557.0	15209.3	16068.0	16381.8	16464.4	15964.8	16068.0	15923.5	15556.1
55°	13611.6	13723.1	14276.3	15605.6	16922.6	17892.8	18049.7	17418.0	16761.6	16873.1	16468.5
56°	13017.1	12823.0	13442.3	15155.6	16885.5	18384.1	18512.1	17723.5	17277.7	17133.2	16460.2
57.5°	11043.7	10791.8	11605.1	13636.4	15948.3	18198.3	18293.3	17851.5	17191.0	16897.9	15258.8
60°	6465.2	6589.0	7621.2	9404.7	12302.9	14920.3	15238.2	15560.2	15118.5	13805.6	11357.4
62.5°	3121.1	3042.7	3781.7	5391.8	7497.3	9524.4	9429.4	10333.6	10829.0	9809.3	7171.2
65°	1634.9	1626.6	2064.2	2943.6	4120.2	5003.7	5090.4	5577.6	6258.8	5053.3	3641.3
67.5°	1201.4	1234.4	1453.2	2068.4	2650.5	2704.2	2691.8	2935.3	3001.4	2539.0	2237.6
70°	941.3	957.8	1118.8	1572.9	1973.4	1767.0	1729.8	1758.7	1952.8	2035.3	1936.3
72.5°	681.2	697.7	834.0	1061.0	1234.4	1205.5	1230.3	1391.3	1630.7	1717.4	1614.2
75°	454.1	466.5	540.8	648.2	730.7	788.5	834.0	1019.7	1242.7	1292.2	1242.7
77.5°	313.8	326.1	375.7	458.3	466.5	503.7	520.2	606.9	743.1	805.1	772.0
80°	177.5	177.5	202.3	235.3	289.0	338.5	346.8	417.0	478.9	520.2	528.4
82.5°	82.6	86.7	107.3	144.5	189.9	235.3	243.6	289.0	334.4	375.7	388.1
85°	41.3	45.4	61.9	86.7	115.6	140.4	136.2	140.4	148.6	140.4	144.5
87.5°	12.4	12.4	16.5	20.6	16.5	20.6	20.6	24.8	28.9	33.0	37.2
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°	6502.4	6502.4	6502.4	6502.4	6502.4	6502.4	6502.4	6502.4	6502.4	6502.4	6502.4
2.5°	6539.5	6551.9	6469.3	6547.8	6518.9	6514.7	6572.5	6564.3	6584.9	6576.7	6527.1
5°	6543.6	6514.7	6601.4	6523.0	6560.1	6638.6	6584.9	6708.8	6646.8	6688.1	6597.3
7.5°	6671.6	6679.9	6663.4	6696.4	6679.9	6717.0	6688.1	6717.0	6667.5	6671.6	6754.2
10°	6783.1	6758.3	6787.2	6745.9	6774.8	6762.4	6696.4	6675.7	6692.3	6671.6	6725.3
12.5°	6989.5	6944.1	6923.5	6873.9	6840.9	6717.0	6613.8	6556.0	6634.5	6646.8	6622.1
15°	7200.1	7204.2	7109.2	6997.8	6791.3	6605.6	6630.3	6651.0	6651.0	6684.0	6622.1
17.5°	7332.2	7332.2	7245.5	7022.5	6812.0	6704.6	6679.9	6613.8	6556.0	6547.8	6543.6
20°	7563.4	7493.2	7295.0	7018.4	6803.7	6754.2	6568.4	6411.5	6291.8	6250.5	6246.4
22.5°	7827.6	7650.1	7373.5	7026.7	6791.3	6721.2	6374.4	6139.0	5924.4	5833.5	5845.9
25°	8071.2	7786.3	7418.9	6989.5	6745.9	6407.4	6019.3	5693.2	5470.2	5395.9	5358.8
27.5°	8240.4	7930.8	7418.9	7022.5	6576.7	6056.5	5660.1	5243.2	5049.1	4999.6	5007.8
30°	8467.5	8112.5	7546.9	6952.4	6238.1	5602.3	5127.6	4855.1	4739.5	4698.2	4727.1
32.5°	9000.1	8587.2	7724.4	6783.1	5837.7	5148.2	4764.3	4611.5	4442.2	4359.7	4330.8
35°	9578.1	9037.2	7897.8	6498.2	5387.7	4735.4	4495.9	4355.5	4153.2	4062.4	4078.9
37.5°	10395.5	9615.2	7910.2	6027.6	4900.5	4504.2	4285.4	4066.5	3901.4	3761.0	3719.8
40°	11497.8	10403.8	7881.3	5532.2	4508.3	4231.7	4070.7	3798.2	3612.4	3513.3	3534.0
42.5°	12468.0	11328.5	7761.5	4970.7	4153.2	4045.9	3864.3	3595.9	3414.3	3311.0	3302.8
45°	13285.4	12009.7	7534.5	4491.8	3856.0	3839.5	3628.9	3422.5	3278.0	3183.1	3224.3
47.5°	14040.9	12558.8	7191.8	4012.9	3583.5	3616.5	3414.3	3286.3	3195.4	3108.7	3104.6
50°	14313.4	12550.6	6890.4	3616.5	3364.7	3348.2	3339.9	3203.7	3108.7	3034.4	3067.5
52.5°	14767.6	12690.9	6564.3	3344.1	3166.5	3170.7	3199.6	3100.5	2993.1	2947.7	2989.0
55°	15419.9	12711.6	5845.9	3026.2	3001.4	3030.3	3030.3	2964.2	2873.4	2836.3	2815.6
56°	14887.3	12096.4	5243.2	2943.6	2918.8	2918.8	2997.3	2923.0	2811.5	2782.6	2757.8
57.5°	13731.3	10597.8	4388.6	2844.5	2807.4	2865.2	2906.4	2828.0	2724.8	2683.5	2708.3
60°	9470.7	7171.2	3298.7	2629.8	2629.8	2724.8	2757.8	2642.2	2596.8	2592.7	2559.7
62.5°	5528.0	4178.0	2580.3	2435.8	2444.1	2522.5	2547.3	2481.2	2423.4	2493.6	2526.6
65°	2931.2	2493.6	2212.9	2229.4	2233.5	2295.4	2402.8	2398.6	2394.5	2415.2	2419.3
67.5°	2122.0	2072.5	2010.6	1994.1	2002.3	2047.7	2155.1	2237.6	2233.5	2184.0	2146.8
70°	1890.8	1820.7	1783.5	1787.6	1754.6	1808.3	1895.0	1948.6	1853.7	1795.9	1771.1
72.5°	1572.9	1552.3	1527.5	1531.7	1465.6	1453.2	1354.1	1354.1	1329.4	1312.9	1341.8
75°	1201.4	1193.1	1205.5	1184.9	1114.7	1040.4	982.6	928.9	846.3	813.3	796.8
77.5°	759.6	784.4	813.3	767.9	739.0	685.3	627.5	573.9	507.8	470.6	470.6
80°	516.1	536.7	557.3	549.1	516.1	466.5	421.1	363.3	317.9	289.0	284.9
82.5°	392.2	408.7	437.6	404.6	371.6	330.3	293.1	251.8	210.6	177.5	177.5
85°	140.4	161.0	177.5	194.0	206.4	210.6	181.7	148.6	119.7	95.0	90.8
87.5°	37.2	41.3	45.4	41.3	41.3	41.3	45.4	41.3	37.2	28.9	28.9
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)