

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: P530983

Luminaire Tested: **GALN-SA6B-730-U-AFL-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P530983
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-27)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA6B-730-U-AFL-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22923 lumens
Efficiency: N/A
Efficacy: 94.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G1

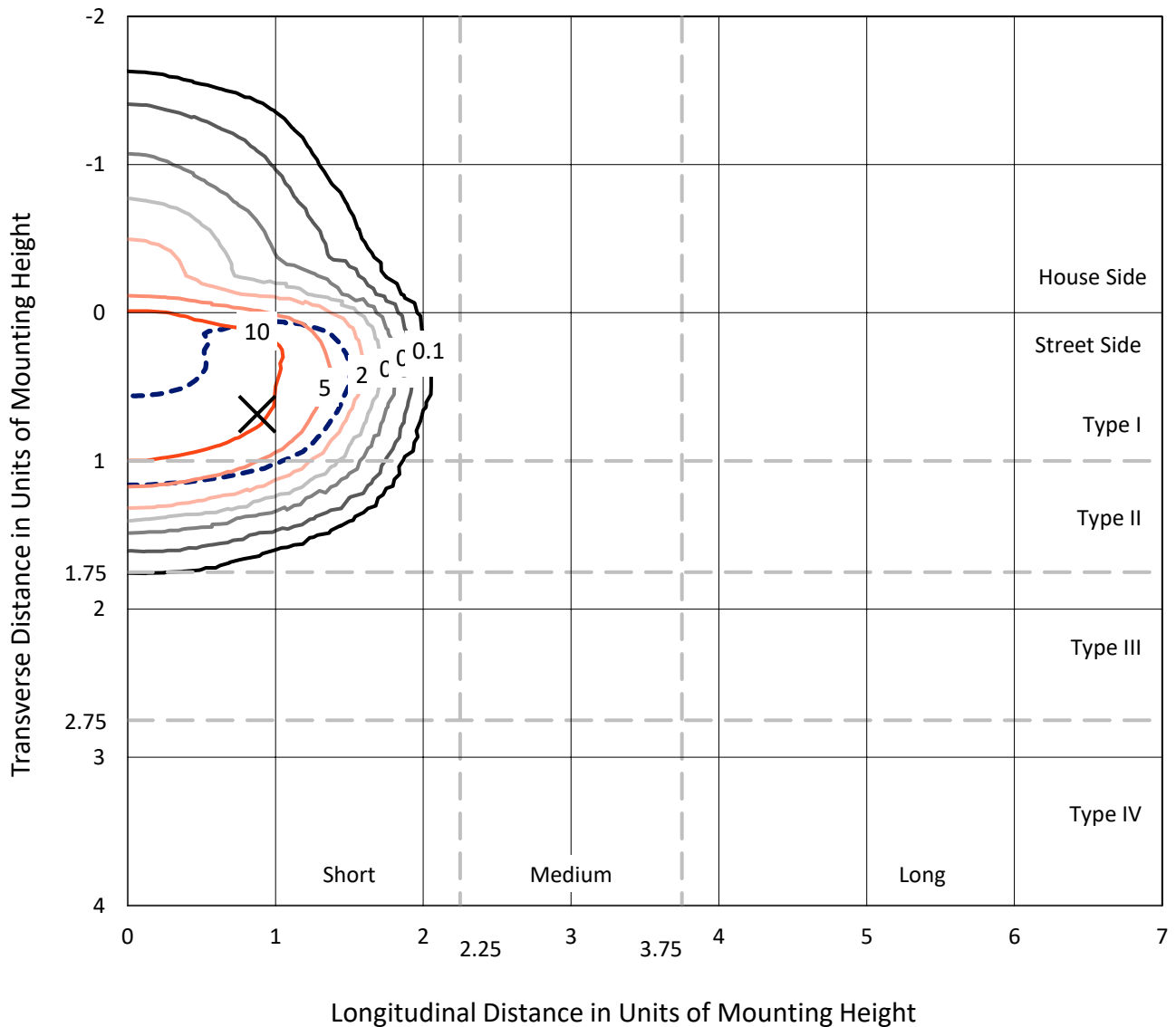
Input Watts (W): 243
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

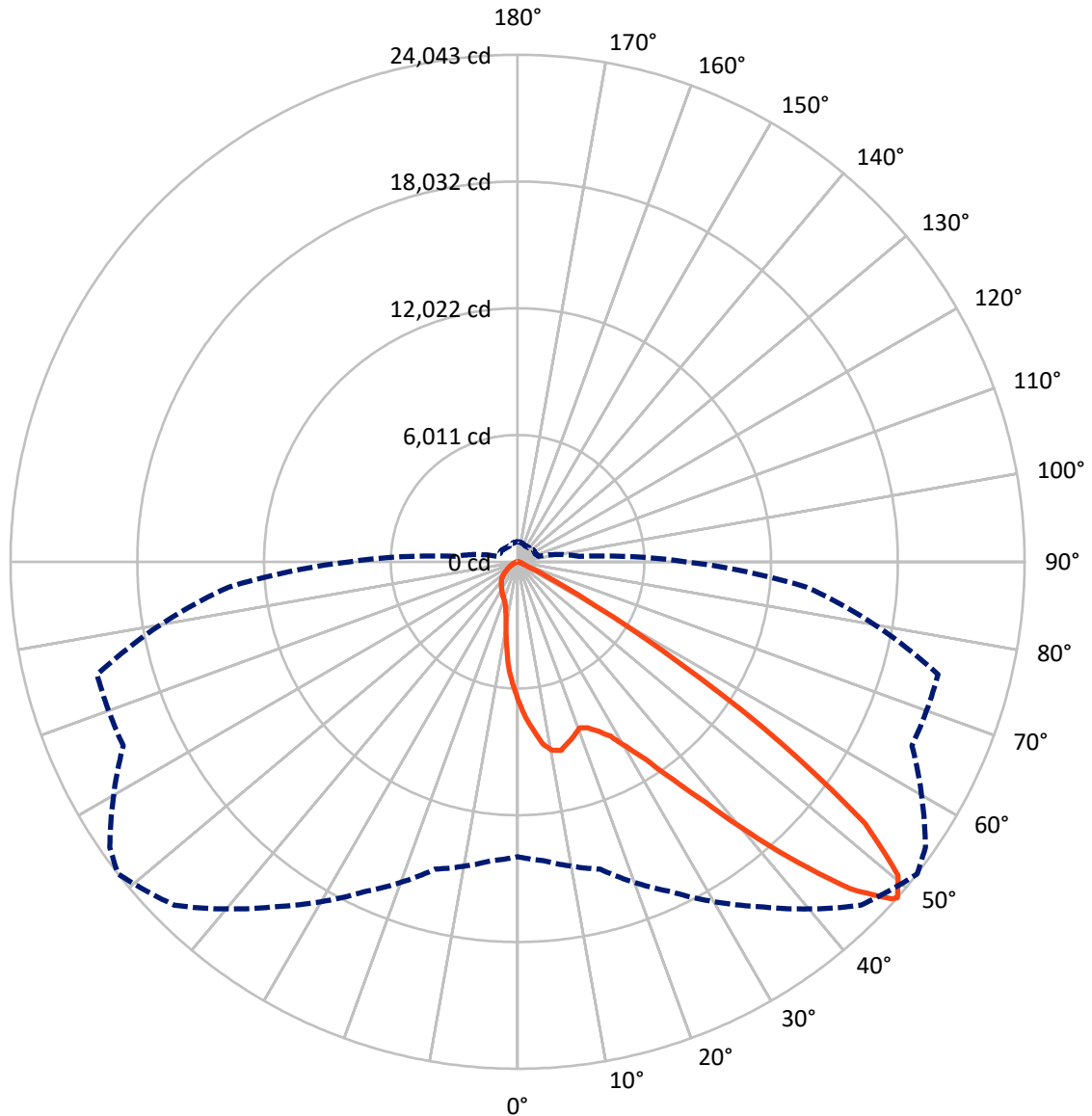
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 52-Deg Lateral - - - Horizontal Cone Through 48-Deg Vertical

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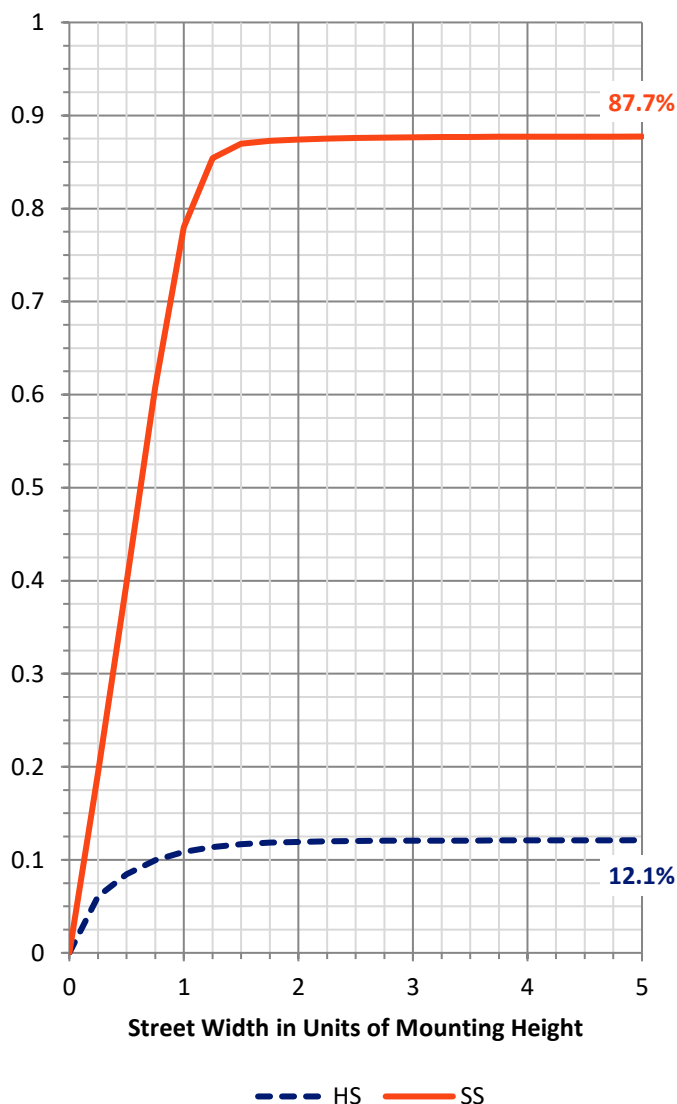
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2791.0	0.0	2791.0
	% Fixture	12.2	0.0	12.2
Street Side	Lumens	20131.9	0.0	20131.9
	% Fixture	87.8	0.0	87.8
Total	Lumens	22923.0	0.0	22923.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	605.9	2.6
10°-20°	1583.4	6.9
20°-30°	2703.6	11.8
30°-40°	4978.6	21.7
40°-50°	7731.8	33.7
50°-60°	4653.2	20.3
60°-70°	538.2	2.3
70°-80°	104.2	0.5
80°-90°	24.1	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°	22923.0	100.0
0°-180°	22923.0	100.0

Coefficient of Utilization



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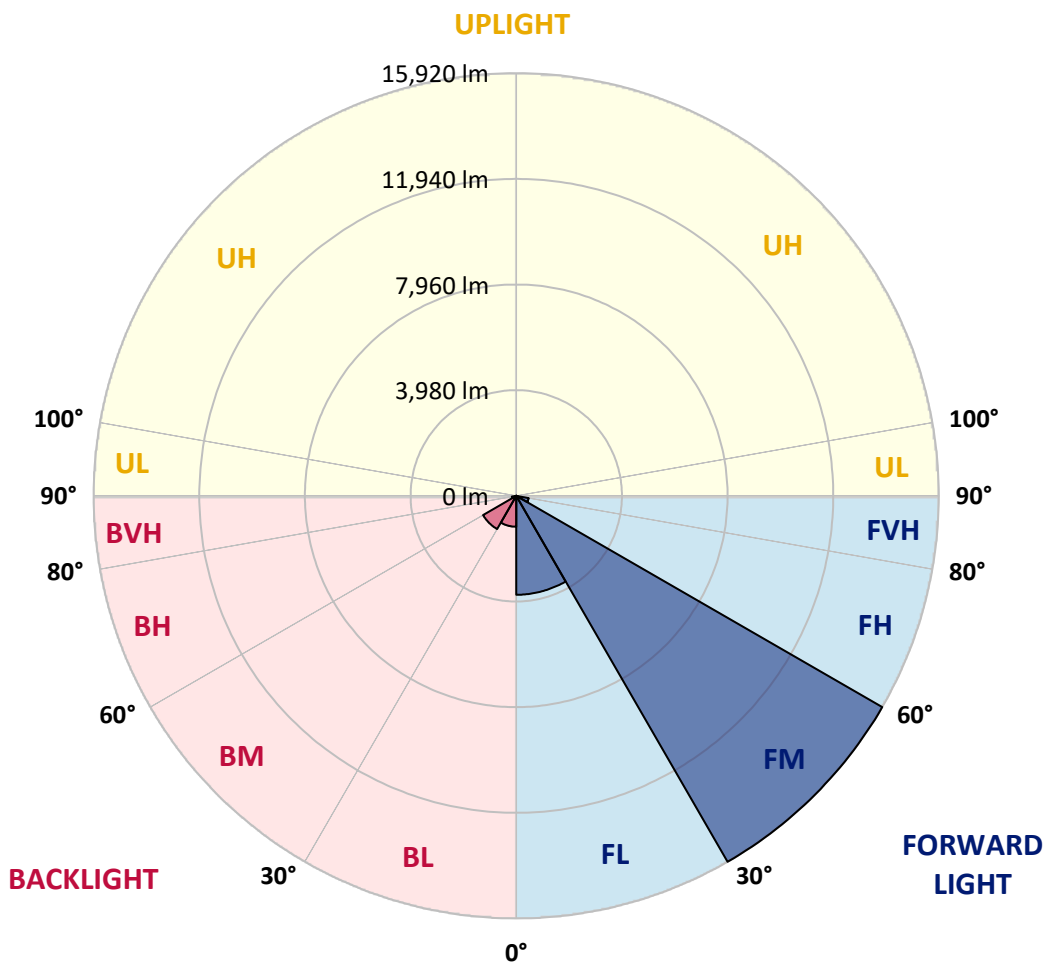
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3727.0	16.3			
FM (30°-60°)	15919.6	69.4			
FH (60°-80°)	473.9	2.1			G0/660
FVH (80°-90°)	11.5	0.0			G1/100
BL (0°-30°)	1165.9	5.1	B3/2500		
BM (30°-60°)	1444.1	6.3	B2/2500		
BH (60°-80°)	168.4	0.7	B1/500		G1/500
BVH (80°-90°)	12.6	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-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	52°	55°	65°	75°	85°
0°	6619.8	6619.8	6619.8	6619.8	6619.8	6619.8	6619.8	6619.8	6619.8	6619.8	6619.8
2.5°	8023.3	7839.5	7856.2	7735.9	7665.7	7552.1	7398.4	7368.3	7201.2	6974.0	6743.4
5°	8745.1	8701.6	8758.4	8584.7	8591.3	8404.2	8043.3	8050.0	7665.7	7294.8	6937.2
7.5°	8791.8	8691.6	8748.4	8902.1	8992.3	8958.9	8755.1	8578.0	8213.7	7669.1	7147.8
10°	7872.9	8063.4	8123.5	8377.5	8738.4	9119.3	9095.9	9106.0	8801.9	8090.1	7328.2
12.5°	7321.5	7194.5	7398.4	7552.1	8096.8	8835.3	9172.8	9246.3	9269.7	8497.8	7508.7
15°	7070.9	7070.9	7104.3	7147.8	7542.1	8223.8	8912.1	9126.0	9630.6	9032.4	7792.7
17.5°	7228.0	7221.3	7268.1	7177.8	7324.9	7849.5	8671.5	8915.5	10034.9	9557.1	8016.6
20°	7705.8	7729.2	7699.1	7438.5	7448.5	7842.8	8404.2	8788.5	10308.9	10011.5	8314.0
22.5°	8370.8	8384.2	8213.7	7929.7	7846.2	8040.0	8557.9	8852.0	10529.5	10556.2	8404.2
25°	9139.4	9085.9	9052.5	8651.5	8397.5	8564.6	8905.5	9075.9	10666.5	11024.1	8661.5
27.5°	10205.4	10098.4	9894.6	9537.0	9349.9	9112.6	9356.6	9637.3	11057.5	11679.0	8942.2
30°	11779.3	11685.7	11288.0	10826.9	10335.7	10101.8	10178.6	10332.3	11762.6	12437.6	9313.1
32.5°	14148.5	13951.3	13376.6	12497.7	11829.4	11184.5	11164.4	11328.1	12394.1	13486.8	9754.2
35°	16758.3	16698.2	15852.7	14947.1	13653.9	12658.1	12674.8	12761.7	13603.8	14863.6	10332.3
37.5°	18492.6	18823.4	18285.4	17313.0	16227.0	14803.4	14442.6	14472.6	15264.6	16494.3	11374.9
40°	19832.6	19551.9	19615.4	19388.2	18646.3	17677.3	16878.6	16721.5	17186.0	18298.8	12410.8
42.5°	19247.8	19261.2	19652.2	20190.2	20374.0	20303.8	19488.4	19191.0	18830.1	19775.8	13396.6
45°	17597.1	17941.2	18449.2	19872.7	21122.5	22295.4	22135.0	21640.4	19966.3	20945.4	13964.7
47.5°	14963.8	14950.5	15782.5	17633.8	20410.7	23157.5	23886.0	23538.5	20771.6	20815.1	13847.7
48°	13991.4	14232.0	15090.8	17269.6	19959.6	23030.6	24043.1	23605.3	20634.6	20641.3	13747.5
50°	10342.4	10298.9	11368.2	14041.6	17827.6	21640.4	23381.4	23722.3	20631.3	19762.4	13045.7
52.5°	5463.6	5650.7	6429.3	8828.6	12604.7	17710.7	20624.6	21155.9	19902.8	18325.5	12036.6
55°	2322.4	2098.5	2696.7	3986.6	7091.0	11832.7	15130.9	16313.9	16828.5	16217.0	10529.5
57.5°	828.7	905.6	1042.6	1500.4	2980.7	6476.1	9022.4	9941.4	11659.0	11899.6	7174.5
60°	531.3	541.3	584.8	688.4	1119.4	2496.2	4280.6	5012.5	5791.1	5978.2	3348.3
62.5°	411.0	414.4	434.4	451.1	531.3	969.1	1607.3	1904.7	1978.2	1700.9	878.9
65°	344.2	347.5	354.2	354.2	377.6	454.5	561.4	618.2	601.5	594.8	497.9
67.5°	264.0	270.7	284.0	284.0	297.4	277.4	310.8	330.8	374.3	454.5	424.4
70°	207.2	210.5	220.5	227.2	227.2	200.5	223.9	243.9	274.0	337.5	334.2
72.5°	160.4	167.1	173.8	173.8	163.7	137.0	160.4	177.1	197.2	233.9	227.2
75°	123.6	123.6	127.0	103.6	80.2	70.2	96.9	117.0	147.0	153.7	127.0
77.5°	33.4	36.8	33.4	30.1	33.4	50.1	63.5	73.5	93.6	93.6	83.5
80°	0.0	3.3	10.0	20.0	33.4	46.8	56.8	63.5	73.5	80.2	76.9
82.5°	0.0	3.3	10.0	20.0	30.1	36.8	50.1	53.5	60.1	70.2	70.2
85°	0.0	3.3	6.7	13.4	20.0	23.4	23.4	20.0	20.0	16.7	13.4
87.5°	0.0	0.0	3.3	6.7	6.7	10.0	10.0	10.0	10.0	10.0	10.0
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°	6619.8	6619.8	6619.8	6619.8	6619.8	6619.8	6619.8	6619.8	6619.8	6619.8	6619.8
2.5°	6653.2	6549.6	6392.6	6145.3	5908.0	5754.3	5607.3	5443.5	5353.3	5346.6	5296.5
5°	6733.4	6499.5	6125.2	5700.8	5246.4	4855.4	4461.1	4203.8	3973.2	3846.2	3822.8
7.5°	6776.8	6472.7	5867.9	5156.1	4380.9	3742.6	3301.5	2977.4	2850.4	2756.9	2753.5
10°	6867.1	6426.0	5483.6	4434.4	3475.3	2830.4	2526.3	2379.2	2309.1	2282.3	2242.2
12.5°	6933.9	6339.1	5089.3	3692.5	2746.8	2345.8	2212.2	2178.7	2182.1	2195.5	2178.7
15°	7027.5	6262.2	4558.0	3030.9	2305.7	2111.9	2111.9	2118.6	2165.4	2172.1	2168.7
17.5°	7020.8	6111.9	4010.0	2496.2	2038.4	2011.7	2021.7	2085.2	2115.3	2125.3	2101.9
20°	7101.0	5971.5	3445.2	2132.0	1888.0	1928.1	1995.0	2011.7	2048.4	2055.1	2028.4
22.5°	7077.6	5620.6	2920.6	1844.6	1774.4	1851.3	1918.1	1938.1	1928.1	1908.1	1904.7
25°	7034.1	5319.9	2439.4	1654.1	1690.9	1774.4	1837.9	1801.1	1781.1	1784.4	1787.8
27.5°	6957.3	4938.9	2041.7	1520.4	1577.3	1700.9	1697.6	1684.2	1704.2	1687.5	1704.2
30°	6943.9	4558.0	1714.3	1400.1	1493.7	1583.9	1590.6	1614.0	1637.4	1607.3	1637.4
32.5°	6964.0	4140.3	1480.3	1326.6	1443.6	1446.9	1520.4	1543.8	1527.1	1460.3	1467.0
35°	7117.7	3819.5	1309.9	1286.5	1363.4	1366.7	1436.9	1406.8	1333.3	1293.2	1316.6
37.5°	7441.8	3552.2	1229.7	1249.8	1256.5	1299.9	1303.2	1243.1	1249.8	1246.4	1259.8
40°	7856.2	3348.3	1172.9	1216.4	1209.7	1239.7	1119.4	1152.9	1182.9	1193.0	1199.6
42.5°	8140.2	3201.3	1136.2	1162.9	1149.5	1096.1	1029.2	1062.6	1086.0	1122.8	1129.5
45°	8267.2	3084.3	1092.7	1069.3	1069.3	972.4	945.7	952.4	1005.8	1045.9	1039.2
47.5°	8060.0	2970.7	1015.9	945.7	969.1	888.9	858.8	858.8	915.6	965.7	955.7
48°	7979.8	2923.9	1019.2	919.0	935.7	875.5	845.4	838.8	902.2	949.0	949.0
50°	7582.2	2750.2	932.3	845.4	812.0	805.3	785.3	792.0	832.1	875.5	875.5
52.5°	6806.9	2375.9	788.6	725.1	665.0	705.1	715.1	701.7	721.8	761.9	758.6
55°	5680.8	1824.5	631.6	601.5	554.7	598.2	618.2	601.5	581.4	611.5	611.5
57.5°	3639.0	982.4	504.6	511.3	464.5	507.9	524.6	484.5	447.8	471.2	467.8
60°	1640.7	588.1	414.4	404.3	374.3	424.4	451.1	404.3	354.2	370.9	387.6
62.5°	614.9	417.7	314.1	307.4	300.7	347.5	360.9	324.1	274.0	284.0	287.4
65°	451.1	367.6	250.6	227.2	240.6	274.0	267.3	230.6	197.2	197.2	203.8
67.5°	384.3	320.8	203.8	177.1	177.1	180.4	167.1	147.0	137.0	143.7	150.4
70°	300.7	254.0	160.4	137.0	123.6	110.3	96.9	93.6	83.5	93.6	90.2
72.5°	193.8	170.4	123.6	103.6	93.6	76.9	63.5	60.1	50.1	46.8	46.8
75°	103.6	103.6	96.9	83.5	73.5	60.1	50.1	40.1	26.7	20.0	20.0
77.5°	73.5	80.2	86.9	80.2	66.8	50.1	40.1	26.7	13.4	6.7	6.7
80°	70.2	80.2	86.9	76.9	66.8	50.1	36.8	20.0	10.0	3.3	3.3
82.5°	63.5	73.5	80.2	70.2	60.1	43.4	33.4	20.0	10.0	3.3	3.3
85°	13.4	16.7	20.0	20.0	23.4	30.1	23.4	16.7	6.7	3.3	3.3
87.5°	10.0	10.0	10.0	10.0	10.0	10.0	6.7	6.7	3.3	3.3	3.3
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)