

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: P652432

Luminaire Tested: **GALN-SA6B-840-U-AFL-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P652432
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-840-U-AFL-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 4000K, 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: 21168.8 lumens
Efficiency: N/A
Efficacy: 87.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G1

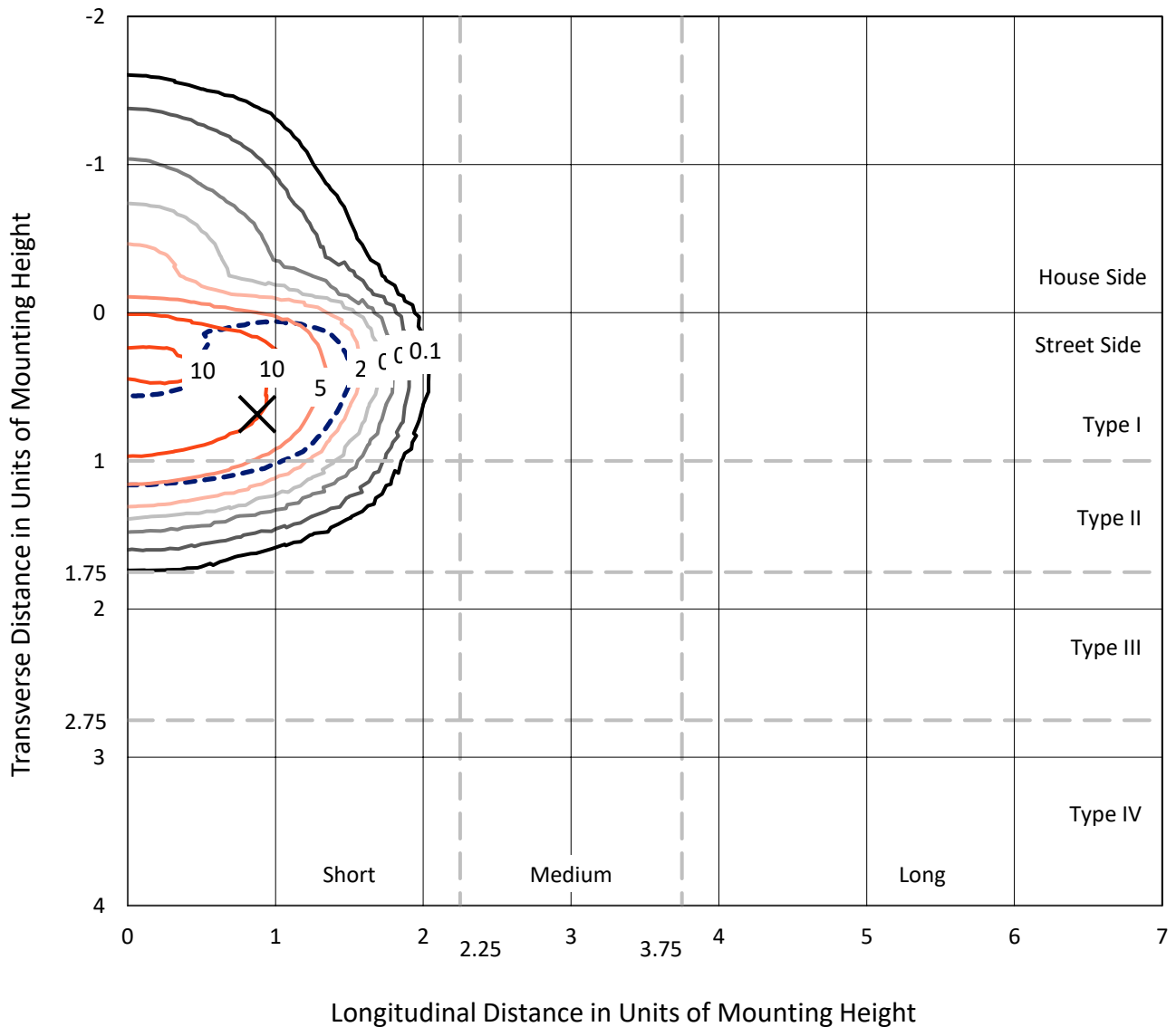
Input Watts (W): 243
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P652432
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Iso-Footcandle Lines of Horizontal Illumination

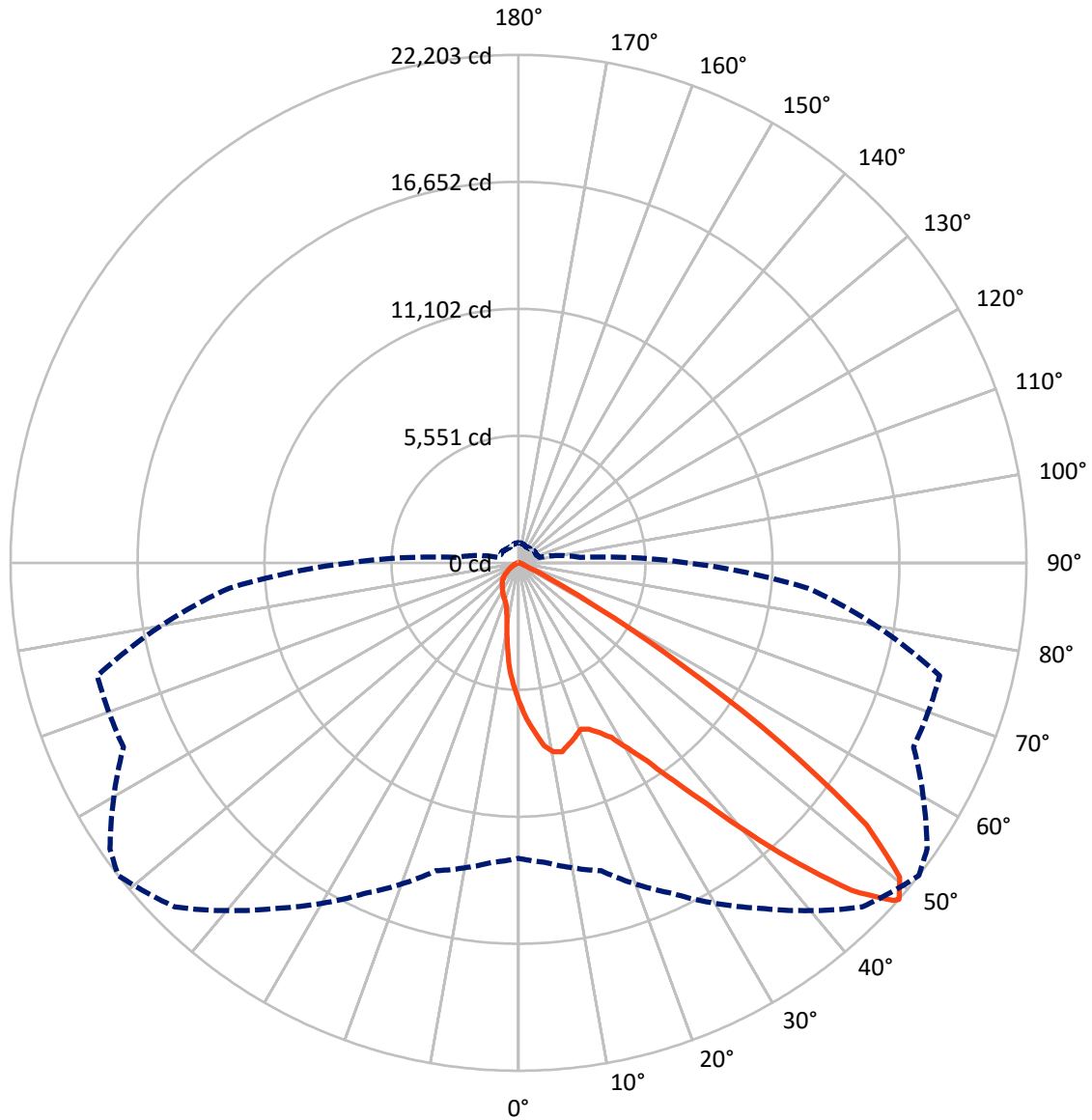
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.7 fc
 Type II - Short - N/A

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CATALOG NUMBER: GALN-SA6B-840-U-AFL-GRSBK

Luminous Intensity Polar Plot



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

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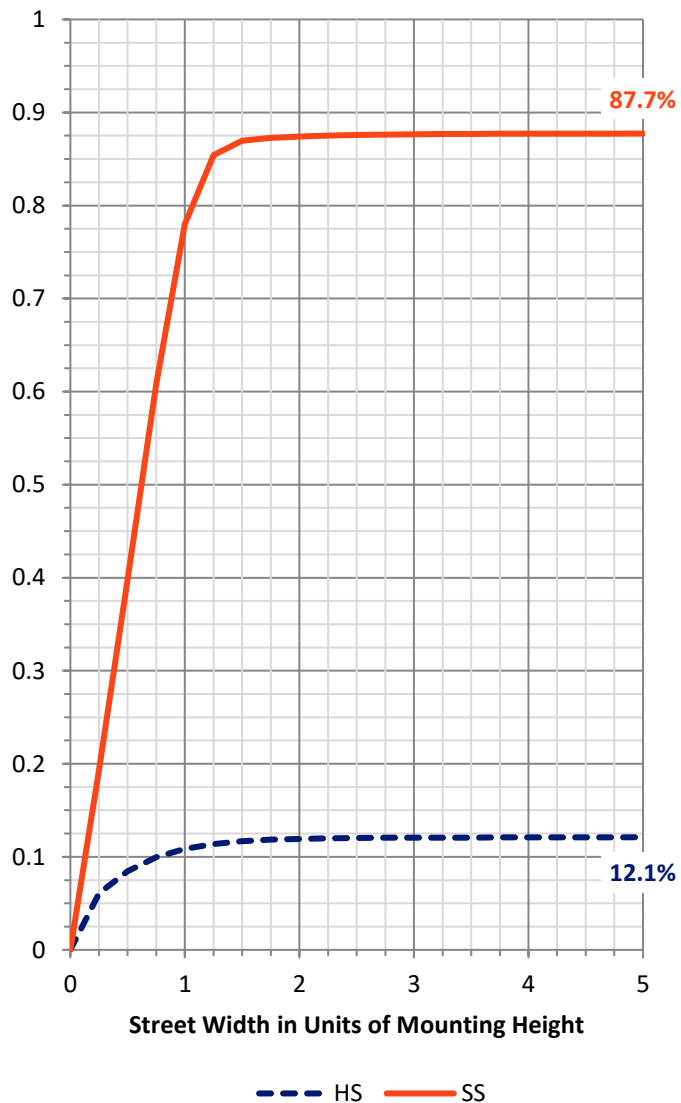
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2577.5	0.0	2577.5
	% Fixture	12.2	0.0	12.2
Street Side	Lumens	18591.3	0.0	18591.3
	% Fixture	87.8	0.0	87.8
Total	Lumens	21168.8	0.0	21168.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	559.5	2.6
10°-20°	1462.3	6.9
20°-30°	2496.7	11.8
30°-40°	4597.6	21.7
40°-50°	7140.1	33.7
50°-60°	4297.1	20.3
60°-70°	497.0	2.3
70°-80°	96.2	0.5
80°-90°	22.3	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°	21168.8	100.0
0°-180°	21168.8	100.0

Coefficient of Utilization

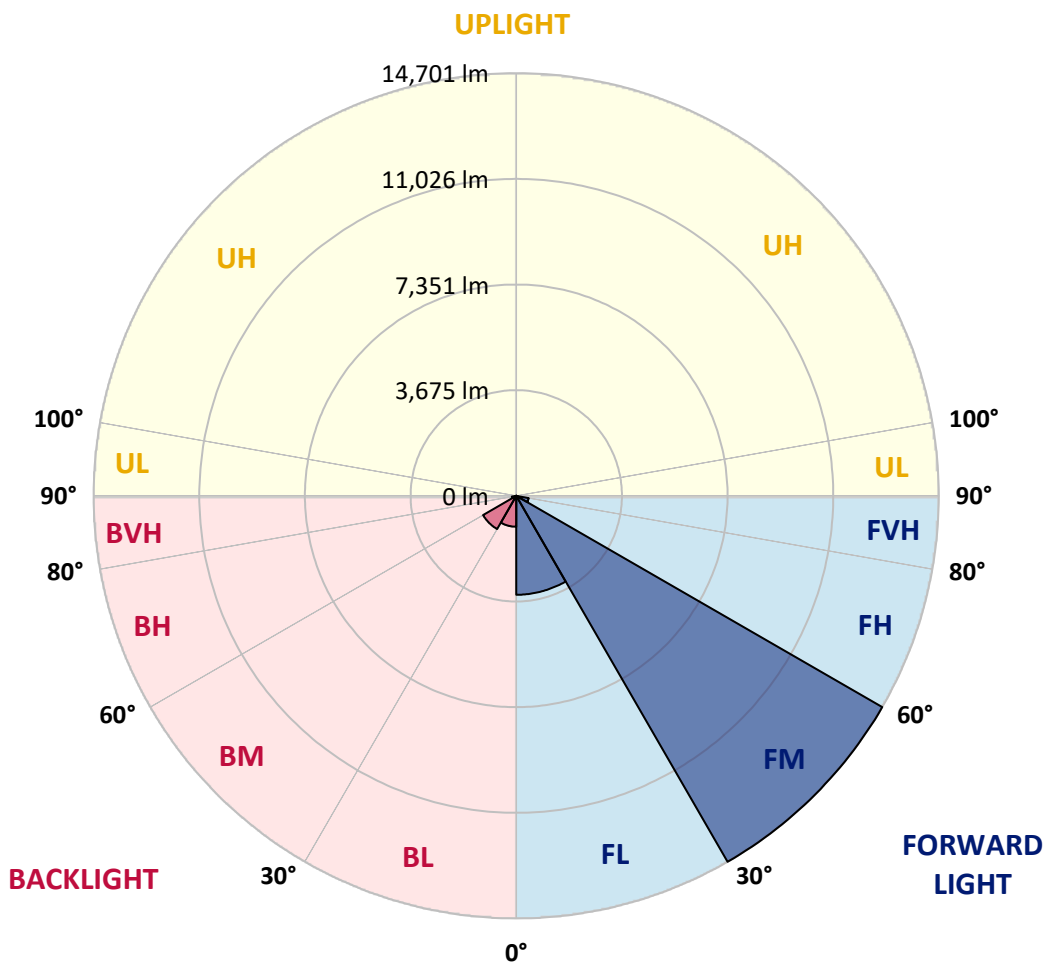


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3441.8	16.3			
FM (30°-60°)	14701.3	69.4			
FH (60°-80°)	437.7	2.1			G0/660
FVH (80°-90°)	10.6	0.1			G1/100
BL (0°-30°)	1076.7	5.1	B3/2500		
BM (30°-60°)	1333.6	6.3	B2/2500		
BH (60°-80°)	155.6	0.7	B1/500		G1/500
BVH (80°-90°)	11.7	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°	6113.2	6113.2	6113.2	6113.2	6113.2	6113.2	6113.2	6113.2	6113.2	6113.2	6113.2
2.5°	7409.3	7239.6	7255.0	7143.9	7079.1	6974.2	6832.2	6804.4	6650.1	6440.3	6227.4
5°	8075.9	8035.8	8088.1	7927.7	7933.9	7761.1	7427.8	7433.9	7079.1	6736.6	6406.4
7.5°	8119.0	8026.5	8078.9	8220.9	8304.2	8273.3	8085.1	7921.5	7585.1	7082.1	6600.8
10°	7270.4	7446.3	7501.9	7736.4	8069.6	8421.4	8399.8	8409.2	8128.3	7471.0	6767.4
12.5°	6761.2	6644.0	6832.2	6974.2	7477.2	8159.1	8470.8	8538.8	8560.4	7847.5	6934.0
15°	6529.8	6529.8	6560.6	6600.8	6964.9	7594.5	8230.1	8427.7	8893.6	8341.2	7196.4
17.5°	6674.8	6668.6	6711.9	6628.5	6764.3	7248.8	8007.9	8233.2	9267.0	8825.7	7403.2
20°	7116.1	7137.7	7110.0	6869.3	6878.5	7242.6	7761.1	8116.0	9520.0	9245.4	7677.7
22.5°	7730.2	7742.6	7585.1	7322.8	7245.7	7424.7	7903.0	8174.6	9723.7	9748.5	7761.1
25°	8440.0	8390.6	8359.7	7989.4	7754.9	7909.2	8224.0	8381.3	9850.2	10180.5	7998.7
27.5°	9424.4	9325.7	9137.4	8807.2	8634.4	8415.3	8640.6	8899.8	10211.3	10785.3	8257.9
30°	10877.8	10791.5	10424.2	9998.4	9544.8	9328.7	9399.7	9541.6	10862.4	11485.8	8600.5
32.5°	13065.8	12883.7	12352.9	11541.3	10924.2	10328.6	10310.1	10461.3	11445.7	12454.8	9007.8
35°	15475.9	15420.3	14639.6	13803.3	12609.0	11689.5	11704.9	11785.1	12562.8	13726.1	9541.6
37.5°	17077.4	17383.0	16886.1	15988.2	14985.2	13670.6	13337.3	13365.1	14096.5	15232.1	10504.4
40°	18314.9	18055.7	18114.3	17904.5	17219.4	16324.5	15586.9	15441.9	15870.8	16898.5	11461.1
42.5°	17774.9	17787.2	18148.3	18645.1	18814.9	18750.0	17997.1	17722.4	17389.1	18262.5	12371.4
45°	16250.5	16568.3	17037.3	18352.0	19506.1	20589.3	20441.1	19984.4	18438.3	19342.5	12896.1
47.5°	13818.7	13806.4	14574.8	16284.4	18848.7	21385.4	22058.2	21737.2	19182.0	19222.1	12788.1
48°	12920.7	13142.9	13936.0	15948.1	18432.2	21268.1	22203.2	21798.9	19055.5	19061.7	12695.5
50°	9550.9	9510.8	10498.3	12967.0	16463.3	19984.4	21592.2	21907.0	19052.4	18250.1	12047.4
52.5°	5045.5	5218.3	5937.3	8153.0	11640.1	16355.3	19046.3	19536.9	18379.7	16923.2	11115.5
55°	2144.7	1937.9	2490.4	3681.5	6548.3	10927.2	13973.0	15065.4	15540.7	14975.9	9723.7
57.5°	765.3	836.3	962.8	1385.5	2752.7	5980.5	8332.0	9180.6	10766.7	10988.9	6625.5
60°	490.6	499.9	540.0	635.7	1033.8	2305.2	3953.0	4628.9	5347.9	5520.7	3092.1
62.5°	379.5	382.7	401.2	416.6	490.6	894.9	1484.4	1759.0	1826.9	1570.7	811.6
65°	317.8	320.9	327.1	327.1	348.7	419.7	518.4	570.9	555.5	549.3	459.8
67.5°	243.8	249.9	262.3	262.3	274.7	256.2	286.9	305.5	345.7	419.7	391.9
70°	191.3	194.4	203.7	209.8	209.8	185.2	206.7	225.3	253.1	311.7	308.6
72.5°	148.1	154.3	160.5	160.5	151.2	126.5	148.1	163.6	182.1	216.1	209.8
75°	114.2	114.2	117.2	95.6	74.1	64.8	89.5	108.0	135.8	142.0	117.2
77.5°	30.9	34.0	30.9	27.8	30.9	46.3	58.6	67.9	86.4	86.4	77.1
80°	0.0	3.1	9.3	18.5	30.9	43.2	52.5	58.6	67.9	74.1	71.0
82.5°	0.0	3.1	9.3	18.5	27.8	34.0	46.3	49.4	55.5	64.8	64.8
85°	0.0	3.1	6.1	12.4	18.5	21.6	21.6	18.5	18.5	15.4	12.4
87.5°	0.0	0.0	3.1	6.1	6.1	9.3	9.3	9.3	9.3	9.3	9.3
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°	6113.2	6113.2	6113.2	6113.2	6113.2	6113.2	6113.2	6113.2	6113.2	6113.2	6113.2
2.5°	6144.1	6048.4	5903.4	5675.0	5455.9	5313.9	5178.2	5027.0	4943.7	4937.4	4891.2
5°	6218.1	6002.1	5656.5	5264.6	4844.9	4483.9	4119.7	3882.1	3669.1	3551.9	3530.3
7.5°	6258.2	5977.4	5418.9	4761.6	4045.6	3456.3	3048.9	2749.6	2632.2	2545.9	2542.8
10°	6341.6	5934.2	5064.0	4095.0	3209.3	2613.7	2332.9	2197.2	2132.4	2107.7	2070.6
12.5°	6403.3	5853.9	4699.8	3409.9	2536.6	2166.3	2042.9	2012.0	2015.1	2027.5	2012.0
15°	6489.7	5783.0	4209.2	2798.9	2129.2	1950.3	1950.3	1956.5	1999.6	2005.9	2002.8
17.5°	6483.5	5644.1	3703.1	2305.2	1882.4	1857.7	1867.0	1925.6	1953.4	1962.6	1941.0
20°	6557.6	5514.5	3181.6	1968.8	1743.6	1780.6	1842.3	1857.7	1891.7	1897.8	1873.2
22.5°	6536.0	5190.5	2697.1	1703.4	1638.6	1709.6	1771.3	1789.8	1780.6	1762.1	1759.0
25°	6495.9	4912.8	2252.7	1527.5	1561.5	1638.6	1697.2	1663.3	1644.8	1647.9	1651.0
27.5°	6424.9	4561.0	1885.5	1404.1	1456.5	1570.7	1567.6	1555.3	1573.8	1558.4	1573.8
30°	6412.5	4209.2	1583.1	1293.0	1379.4	1462.8	1468.9	1490.5	1512.1	1484.4	1512.1
32.5°	6431.0	3823.4	1367.0	1225.1	1333.2	1336.2	1404.1	1425.7	1410.3	1348.5	1354.7
35°	6573.0	3527.2	1209.7	1188.1	1259.1	1262.2	1326.9	1299.2	1231.3	1194.2	1215.8
37.5°	6872.3	3280.3	1135.6	1154.1	1160.3	1200.4	1203.5	1148.0	1154.1	1151.1	1163.4
40°	7255.0	3092.1	1083.1	1123.2	1117.1	1144.9	1033.8	1064.6	1092.4	1101.7	1107.8
42.5°	7517.3	2956.3	1049.2	1073.9	1061.6	1012.1	950.5	981.4	1002.9	1036.9	1043.0
45°	7634.6	2848.3	1009.1	987.5	987.5	898.0	873.3	879.5	928.9	965.9	959.7
47.5°	7443.3	2743.3	938.1	873.3	894.9	820.8	793.1	793.1	845.5	891.8	882.5
48°	7369.2	2700.2	941.2	848.7	864.0	808.5	780.7	774.6	833.2	876.4	876.4
50°	7001.9	2539.7	860.9	780.7	749.9	743.7	725.2	731.3	768.4	808.5	808.5
52.5°	6286.0	2194.1	728.3	669.6	614.1	651.1	660.4	648.1	666.6	703.6	700.5
55°	5246.1	1684.9	583.2	555.5	512.3	552.4	570.9	555.5	537.0	564.7	564.7
57.5°	3360.6	907.3	466.0	472.1	428.9	469.0	484.5	447.5	413.5	435.1	432.0
60°	1515.1	543.1	382.7	373.4	345.7	391.9	416.6	373.4	327.1	342.5	357.9
62.5°	567.8	385.8	290.1	283.9	277.7	320.9	333.3	299.3	253.1	262.3	265.4
65°	416.6	339.4	231.4	209.8	222.2	253.1	246.8	212.9	182.1	182.1	188.2
67.5°	354.9	296.3	188.2	163.6	163.6	166.6	154.3	135.8	126.5	132.7	138.8
70°	277.7	234.6	148.1	126.5	114.2	101.8	89.5	86.4	77.1	86.4	83.3
72.5°	179.0	157.4	114.2	95.6	86.4	71.0	58.6	55.5	46.3	43.2	43.2
75°	95.6	95.6	89.5	77.1	67.9	55.5	46.3	37.0	24.7	18.5	18.5
77.5°	67.9	74.1	80.2	74.1	61.7	46.3	37.0	24.7	12.4	6.1	6.1
80°	64.8	74.1	80.2	71.0	61.7	46.3	34.0	18.5	9.3	3.1	3.1
82.5°	58.6	67.9	74.1	64.8	55.5	40.1	30.9	18.5	9.3	3.1	3.1
85°	12.4	15.4	18.5	18.5	21.6	27.8	21.6	15.4	6.1	3.1	3.1
87.5°	9.3	9.3	9.3	9.3	9.3	9.3	6.1	6.1	3.1	3.1	3.1
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)