

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: P651037

Luminaire Tested: **GALN-SA7C-840-U-T3-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P651037
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-SA7C-840-U-T3-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 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: 35111.7 lumens
Efficiency: N/A
Efficacy: 93.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G3

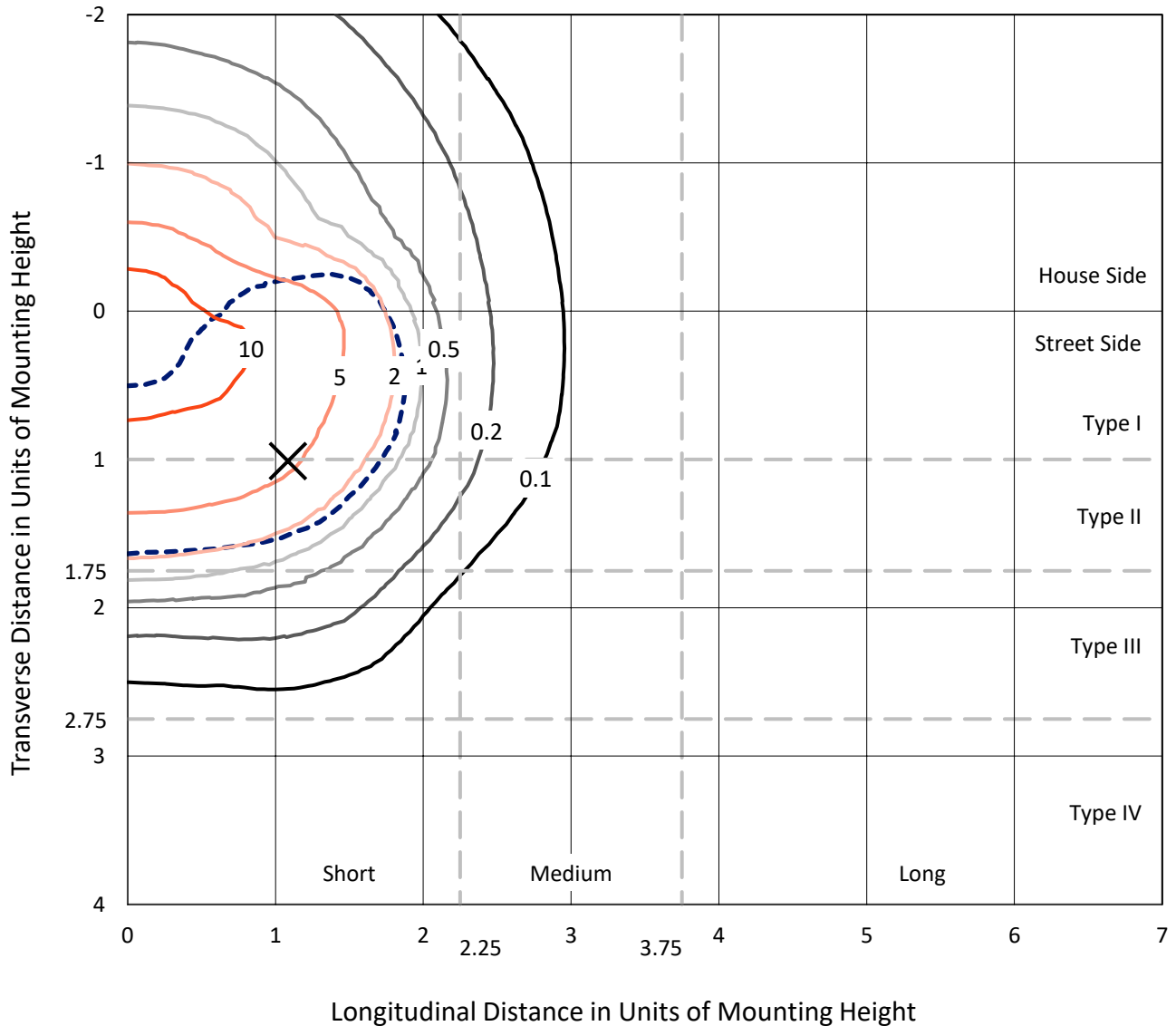
Input Watts (W): 377
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

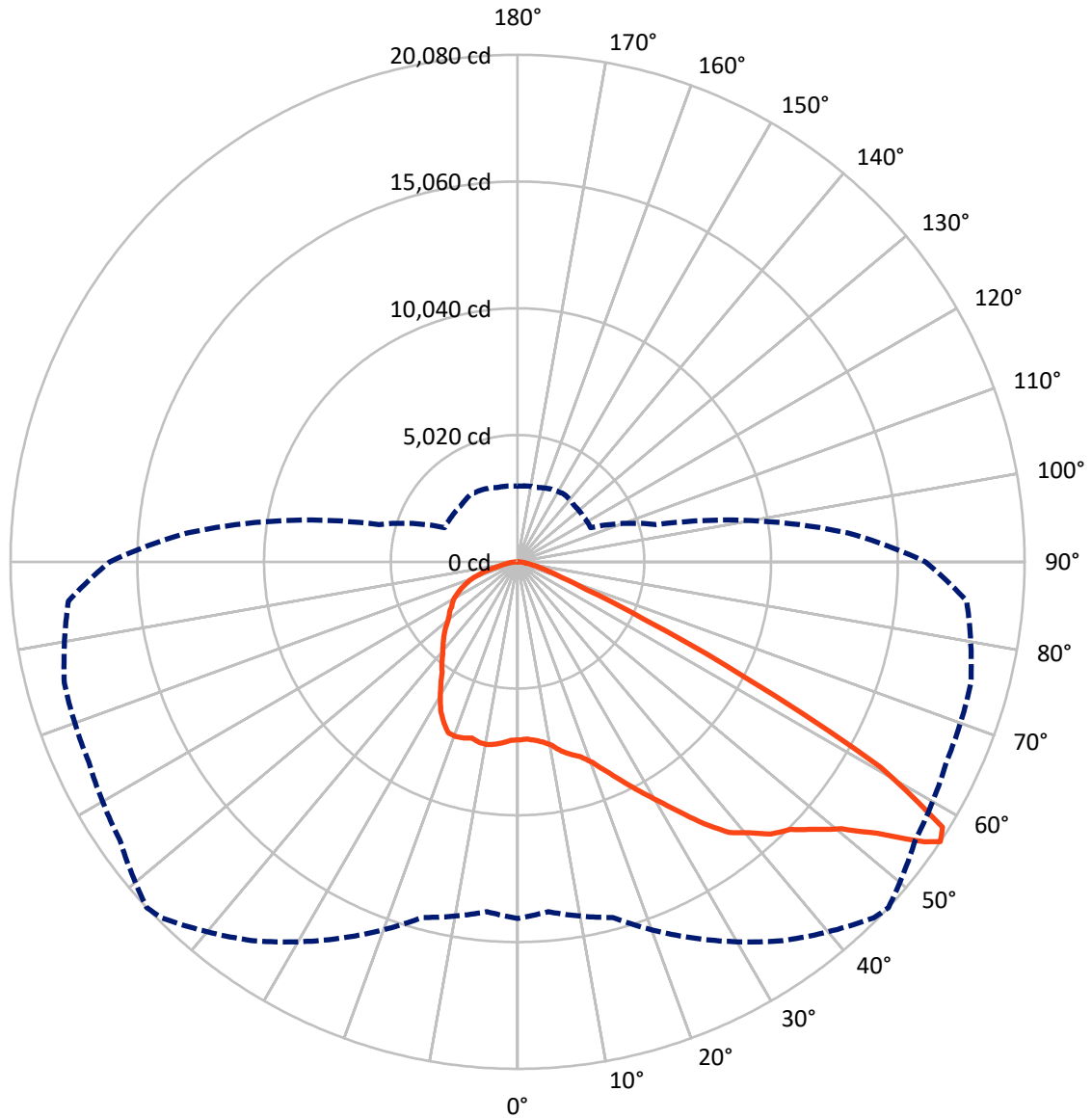
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.8 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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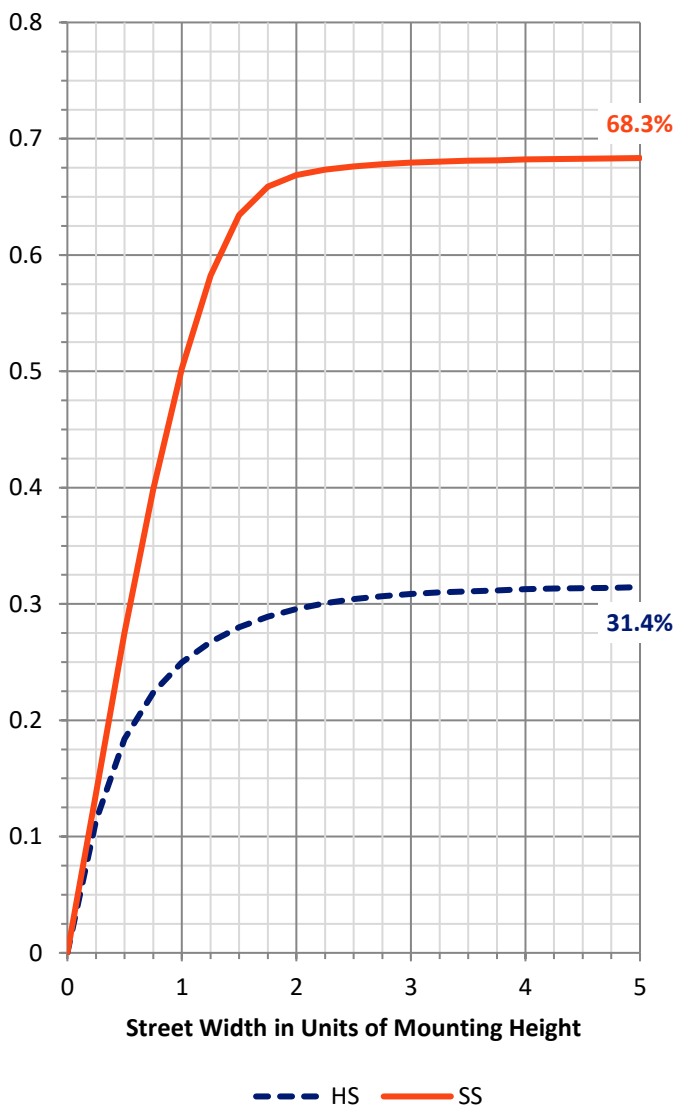
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11126.5	0.0	11126.5
	% Fixture	31.7	0.0	31.7
Street Side	Lumens	23985.3	0.0	23985.3
	% Fixture	68.3	0.0	68.3
Total	Lumens	35111.7	0.0	35111.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	687.2	2.0
10°-20°	2167.8	6.2
20°-30°	3832.1	10.9
30°-40°	5755.7	16.4
40°-50°	7899.2	22.5
50°-60°	9410.9	26.8
60°-70°	4027.3	11.5
70°-80°	1139.7	3.2
80°-90°	191.8	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°	35111.7	100.0
0°-180°	35111.7	100.0

Coefficient of Utilization

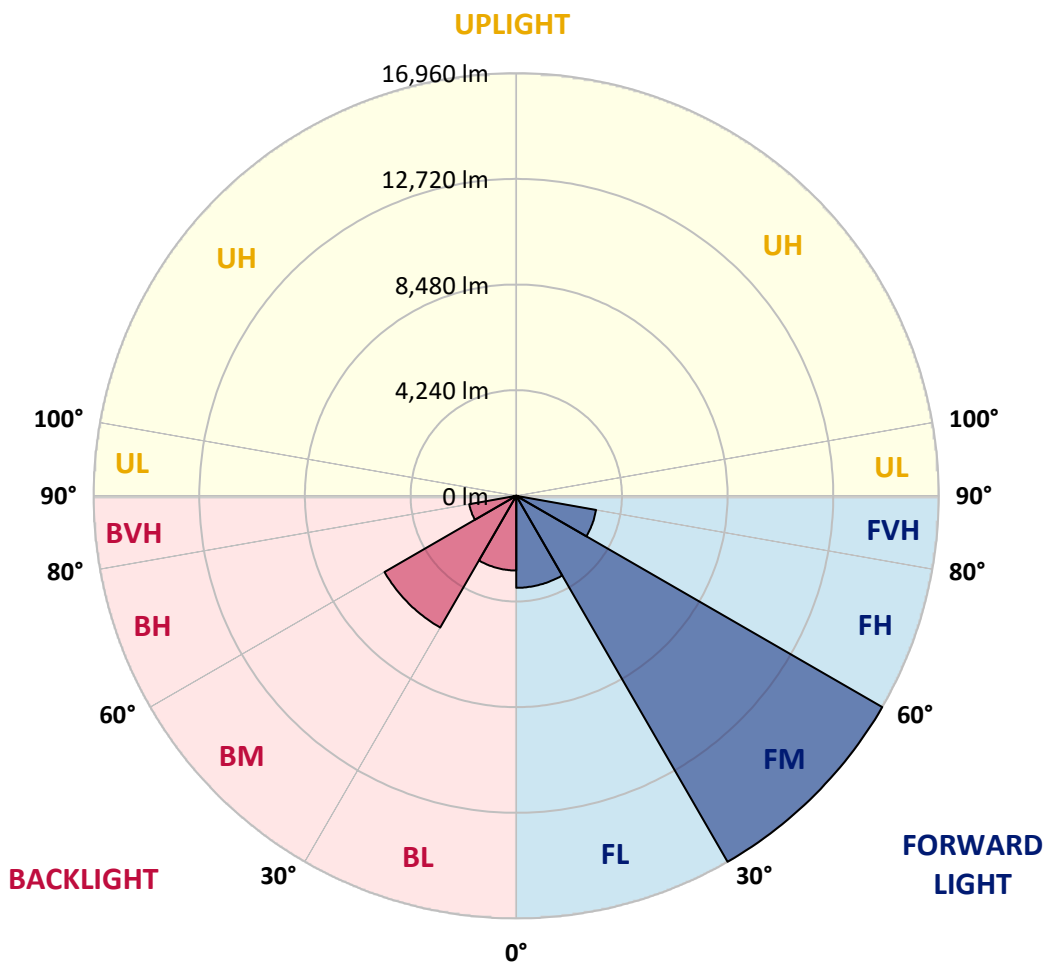


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3691.4	10.5			
FM (30°-60°)	16959.8	48.3			
FH (60°-80°)	3252.6	9.3			G2/5000
FVH (80°-90°)	81.4	0.2			G1/100
BL (0°-30°)	2995.7	8.5	B4/5000		
BM (30°-60°)	6106.0	17.4	B4/8500		
BH (60°-80°)	1914.4	5.5	B3/2500		G3/2500
BVH (80°-90°)	110.4	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°	7052.9	7052.9	7052.9	7052.9	7052.9	7052.9	7052.9	7052.9	7052.9	7052.9	7052.9
2.5°	7026.1	7012.6	7003.6	7075.2	7048.4	7052.9	7026.1	7052.9	7070.8	7030.5	7088.7
5°	7012.6	7052.9	7017.1	7039.4	7097.7	7079.8	7097.7	7151.4	7138.0	7124.5	7106.6
7.5°	7138.0	7142.4	7169.3	7178.3	7196.2	7178.3	7205.1	7254.4	7240.9	7164.8	7173.8
10°	7317.1	7326.0	7330.5	7379.8	7411.1	7415.6	7384.2	7339.5	7335.0	7438.0	7366.3
12.5°	7523.1	7500.7	7554.5	7572.4	7608.2	7648.5	7688.8	7594.7	7652.9	7657.4	7572.4
15°	7823.1	7845.5	7782.8	7782.8	7796.2	7800.7	7912.6	7867.9	7858.9	7809.7	7845.5
17.5°	8270.9	8118.7	8114.1	8051.5	8042.6	8078.3	8118.7	8154.5	8275.4	8176.9	7984.3
20°	8597.8	8633.6	8503.8	8427.7	8441.0	8521.7	8481.4	8642.6	8727.6	8566.4	8378.4
22.5°	9175.5	9054.5	9085.9	8915.8	8929.1	9014.3	9009.8	9175.5	9224.8	8969.5	8696.3
25°	9565.0	9533.7	9560.6	9426.3	9444.2	9511.3	9618.8	9891.9	9811.4	9529.2	8897.9
27.5°	10133.8	10071.1	10048.7	9999.4	9981.5	10160.6	10286.0	10577.1	10518.9	10106.9	9256.0
30°	10715.9	10675.6	10698.0	10496.5	10568.1	10948.7	10984.6	11383.1	11356.3	10630.8	9654.6
32.5°	11118.9	11141.3	11181.6	11069.7	11387.6	11692.1	11813.0	12265.3	12287.7	11530.9	10424.9
35°	11768.3	11692.1	11714.5	11844.4	11992.2	12547.4	12744.4	13044.5	13232.5	12475.7	11163.7
37.5°	12175.7	12256.3	12162.3	12368.3	12753.4	13420.6	13599.7	13908.7	14105.8	13407.2	12171.3
40°	12811.6	12681.8	12748.9	12896.7	13290.7	14159.5	14110.2	14428.2	14490.9	14199.8	13111.6
42.5°	13496.8	13434.0	13340.0	13675.8	14007.3	14638.6	14737.2	14589.4	14907.3	14974.5	14455.0
45°	14316.3	14392.4	14405.8	14414.7	14705.8	15256.6	15122.3	14992.4	15359.6	15847.7	15288.0
47.5°	15077.5	14835.7	15010.3	15252.1	15664.1	15668.6	15825.3	15516.4	15905.9	16340.3	16040.3
50°	15332.8	15216.3	15449.2	15905.9	16541.8	16609.0	16626.9	16188.1	16389.6	16734.4	16300.0
52.5°	15234.2	15193.9	15789.5	16497.1	17428.5	17768.8	17858.4	17316.5	17428.5	17271.7	16873.2
55°	14764.0	14884.9	15485.0	16926.9	18355.4	19407.8	19577.9	18892.8	18180.7	18301.7	17862.8
56°	14119.2	13908.7	14580.4	16438.9	18315.1	19940.6	20079.5	19224.2	18740.5	18583.8	17853.8
57.5°	11978.7	11705.5	12587.8	14790.9	17298.6	19739.1	19842.1	19362.9	18646.5	18328.5	16550.8
60°	7012.6	7146.9	8266.4	10200.9	13344.5	16183.5	16528.3	16877.7	16398.5	14974.5	12319.1
62.5°	3385.4	3300.3	4101.9	5848.3	8132.0	10330.8	10227.8	11208.5	11745.8	10639.7	7778.3
65°	1773.3	1764.3	2239.0	3192.9	4469.1	5427.4	5521.4	6049.8	6788.7	5481.1	3949.6
67.5°	1303.1	1339.0	1576.3	2243.5	2874.9	2933.1	2919.7	3183.9	3255.5	2754.0	2427.1
70°	1021.0	1038.9	1213.6	1706.1	2140.5	1916.6	1876.3	1907.6	2118.1	2207.6	2100.2
72.5°	738.9	756.8	904.6	1150.8	1339.0	1307.6	1334.4	1509.1	1768.8	1862.8	1750.9
75°	492.6	506.0	586.6	703.1	792.6	855.3	904.6	1106.1	1347.9	1401.6	1347.9
77.5°	340.4	353.7	407.5	497.0	506.0	546.3	564.2	658.3	806.0	873.2	837.4
80°	192.6	192.6	219.4	255.2	313.4	367.2	376.2	452.3	519.5	564.2	573.2
82.5°	89.6	94.0	116.4	156.8	206.0	255.2	264.2	313.4	362.7	407.5	420.9
85°	44.7	49.3	67.2	94.0	125.4	152.2	147.8	152.2	161.2	152.2	156.8
87.5°	13.5	13.5	17.9	22.4	17.9	22.4	22.4	26.8	31.4	35.8	40.3
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°	7052.9	7052.9	7052.9	7052.9	7052.9	7052.9	7052.9	7052.9	7052.9	7052.9	7052.9
2.5°	7093.2	7106.6	7017.1	7102.2	7070.8	7066.3	7129.0	7120.1	7142.4	7133.5	7079.8
5°	7097.7	7066.3	7160.4	7075.2	7115.6	7200.6	7142.4	7276.8	7209.6	7254.4	7155.9
7.5°	7236.5	7245.5	7227.6	7263.4	7245.5	7285.8	7254.4	7285.8	7232.0	7236.5	7326.0
10°	7357.4	7330.5	7361.9	7317.1	7348.4	7335.0	7263.4	7240.9	7258.8	7236.5	7294.7
12.5°	7581.3	7532.0	7509.6	7455.9	7420.1	7285.8	7173.8	7111.1	7196.2	7209.6	7182.7
15°	7809.7	7814.2	7711.1	7590.3	7366.3	7164.8	7191.7	7214.1	7214.1	7249.9	7182.7
17.5°	7953.0	7953.0	7858.9	7617.1	7388.8	7272.3	7245.5	7173.8	7111.1	7102.2	7097.7
20°	8203.7	8127.6	7912.6	7612.6	7379.8	7326.0	7124.5	6954.4	6824.5	6779.7	6775.3
22.5°	8490.3	8297.8	7997.7	7621.6	7366.3	7290.2	6914.0	6658.8	6426.0	6327.4	6340.9
25°	8754.6	8445.6	8047.0	7581.3	7317.1	6949.9	6528.9	6175.2	5933.3	5852.8	5812.5
27.5°	8938.1	8602.3	8047.0	7617.1	7133.5	6569.2	6139.4	5687.1	5476.6	5422.9	5431.9
30°	9184.4	8799.3	8185.8	7541.0	6766.3	6076.6	5561.7	5266.2	5140.8	5096.0	5127.3
32.5°	9762.1	9314.2	8378.4	7357.4	6331.9	5584.1	5167.6	5001.9	4818.3	4728.8	4697.4
35°	10389.0	9802.4	8566.4	7048.4	5843.9	5136.3	4876.5	4724.3	4504.9	4406.3	4424.2
37.5°	11275.6	10429.3	8579.9	6537.9	5315.4	4885.5	4648.2	4410.9	4231.7	4079.4	4034.7
40°	12471.3	11284.6	8548.5	6000.5	4890.0	4590.0	4415.3	4119.8	3918.3	3810.8	3833.2
42.5°	13523.6	12287.7	8418.7	5391.6	4504.9	4388.4	4191.5	3900.4	3703.3	3591.4	3582.4
45°	14410.3	13026.6	8172.4	4872.1	4182.5	4164.5	3936.2	3712.3	3555.6	3452.6	3497.3
47.5°	15229.8	13622.2	7800.7	4352.6	3886.9	3922.8	3703.3	3564.5	3466.0	3372.0	3367.4
50°	15525.3	13613.2	7473.8	3922.8	3649.6	3631.7	3622.7	3474.9	3372.0	3291.3	3327.2
52.5°	16017.9	13765.4	7120.1	3627.2	3434.6	3439.1	3470.5	3363.0	3246.6	3197.3	3242.1
55°	16725.4	13787.9	6340.9	3282.4	3255.5	3286.9	3286.9	3215.2	3116.7	3076.4	3054.0
56°	16147.7	13120.6	5687.1	3192.9	3165.9	3165.9	3251.1	3170.4	3049.6	3018.2	2991.4
57.5°	14893.9	11495.0	4760.1	3085.4	3045.1	3107.7	3152.5	3067.5	2955.5	2910.7	2937.6
60°	10272.6	7778.3	3578.0	2852.5	2852.5	2955.5	2991.4	2866.0	2816.7	2812.2	2776.4
62.5°	5996.1	4531.7	2798.8	2642.0	2651.0	2736.1	2762.9	2691.3	2628.6	2704.7	2740.6
65°	3179.4	2704.7	2400.2	2418.1	2422.6	2489.8	2606.2	2601.7	2597.3	2619.6	2624.1
67.5°	2301.7	2248.0	2180.8	2162.9	2171.8	2221.1	2337.6	2427.1	2422.6	2368.8	2328.6
70°	2050.9	1974.8	1934.5	1939.0	1903.2	1961.4	2055.4	2113.6	2010.7	1947.9	1921.1
72.5°	1706.1	1683.8	1656.9	1661.3	1589.7	1576.3	1468.8	1468.8	1441.9	1424.0	1455.4
75°	1303.1	1294.1	1307.6	1285.2	1209.1	1128.5	1065.8	1007.5	918.0	882.2	864.3
77.5°	823.9	850.8	882.2	832.9	801.6	743.4	680.6	622.4	550.8	510.5	510.5
80°	559.8	582.1	604.5	595.6	559.8	506.0	456.7	394.1	344.8	313.4	309.0
82.5°	425.4	443.3	474.7	438.8	403.0	358.3	317.9	273.2	228.4	192.6	192.6
85°	152.2	174.7	192.6	210.5	223.9	228.4	197.0	161.2	129.9	103.0	98.5
87.5°	40.3	44.7	49.3	44.7	44.7	44.7	49.3	44.7	40.3	31.4	31.4
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)