

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: P650820

Luminaire Tested: **GALN-SA3C-840-U-T3R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P650820
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-12)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA3C-840-U-T3R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15408 lumens
Efficiency: N/A
Efficacy: 96.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

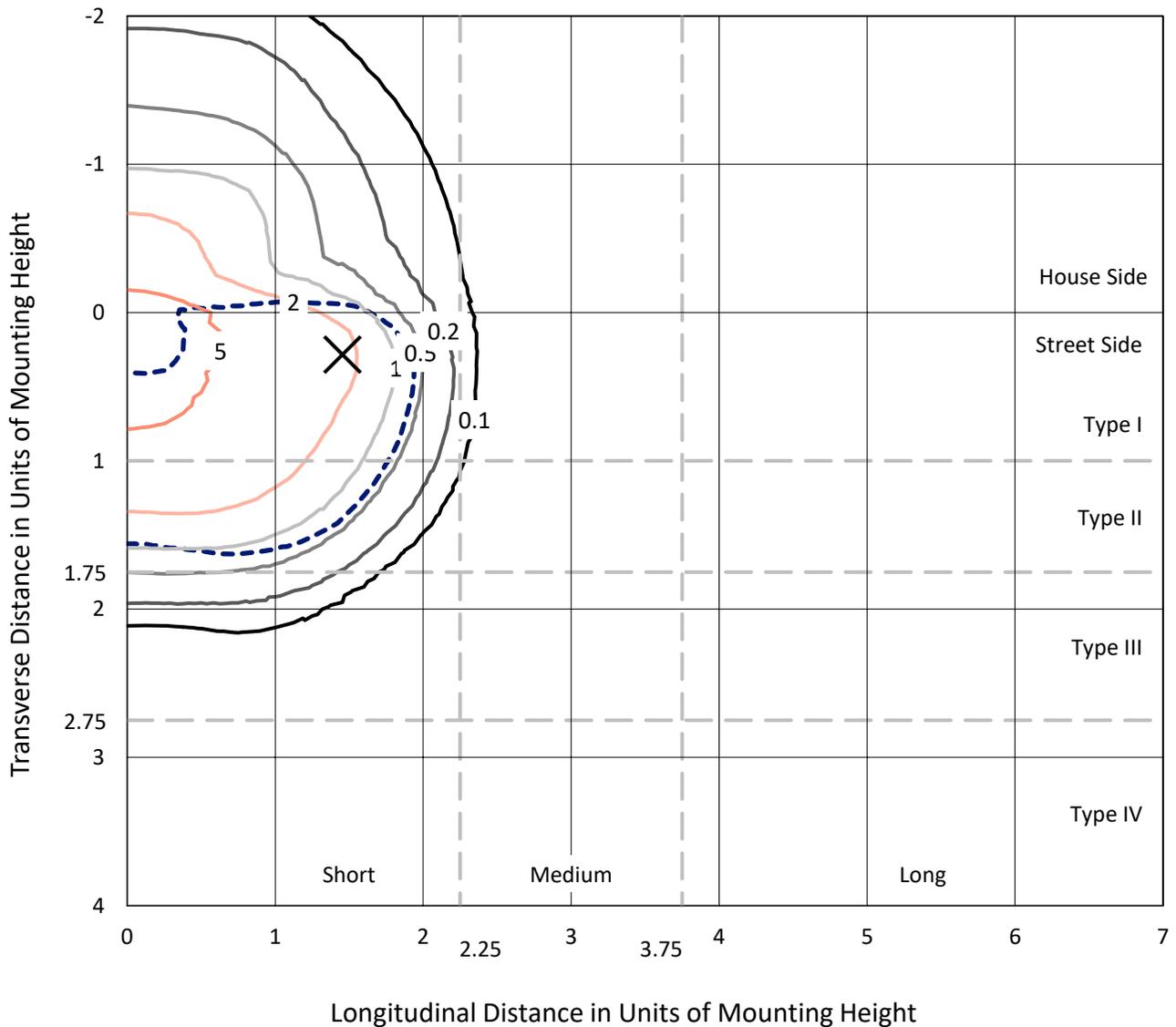
Input Watts (W): 160
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P650820
 CATALOG NUMBER: GALN-SA3C-840-U-T3R-GRSWH

Iso-Footcandle Lines of Horizontal Illumination

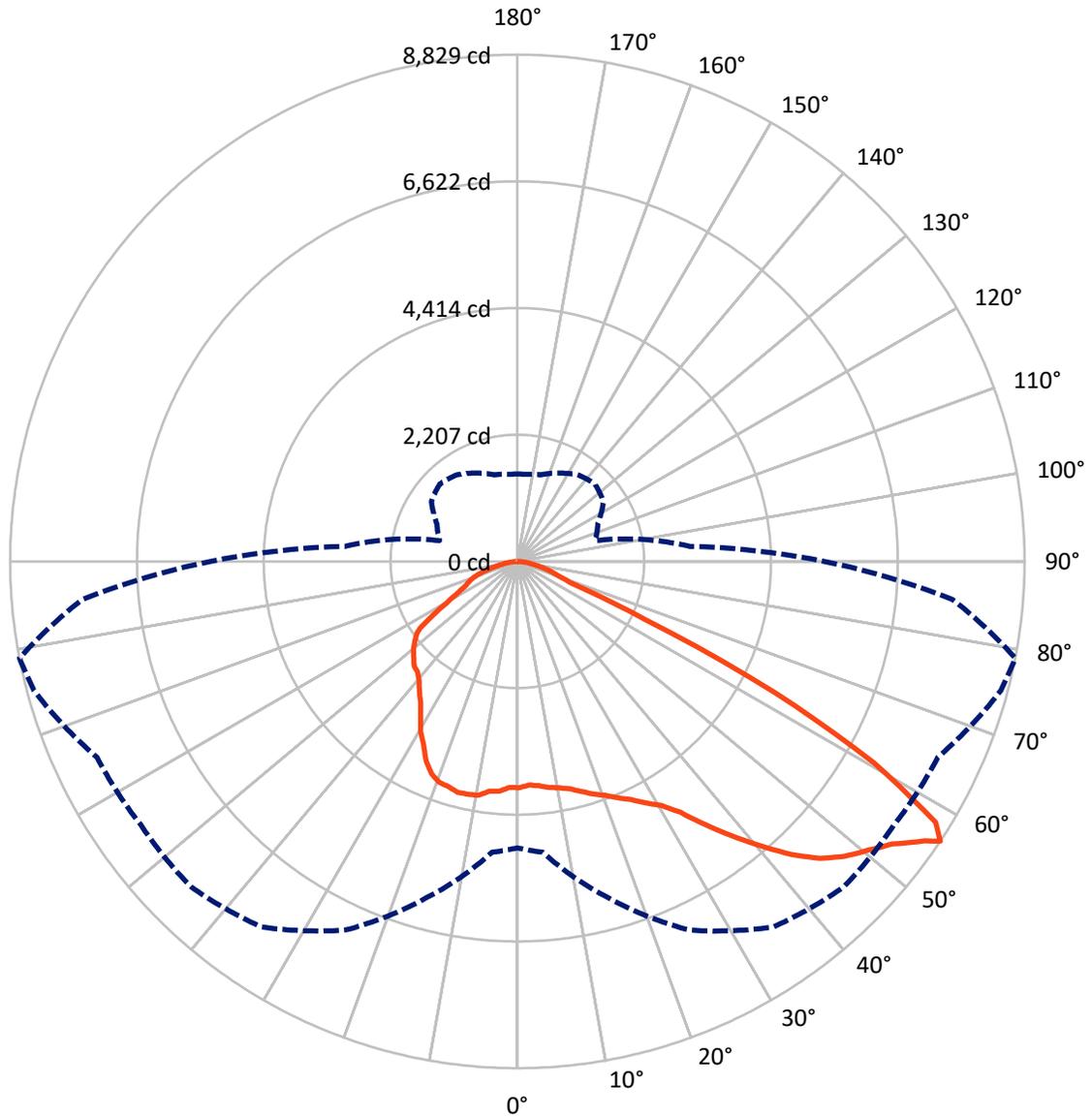
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.3 fc
 Type II - Short - N/A

REPORT NUMBER: P650820
CATALOG NUMBER: GALN-SA3C-840-U-T3R-GRSWH

Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

REPORT NUMBER: P650820
 CATALOG NUMBER: GALN-SA3C-840-U-T3R-GRSWH

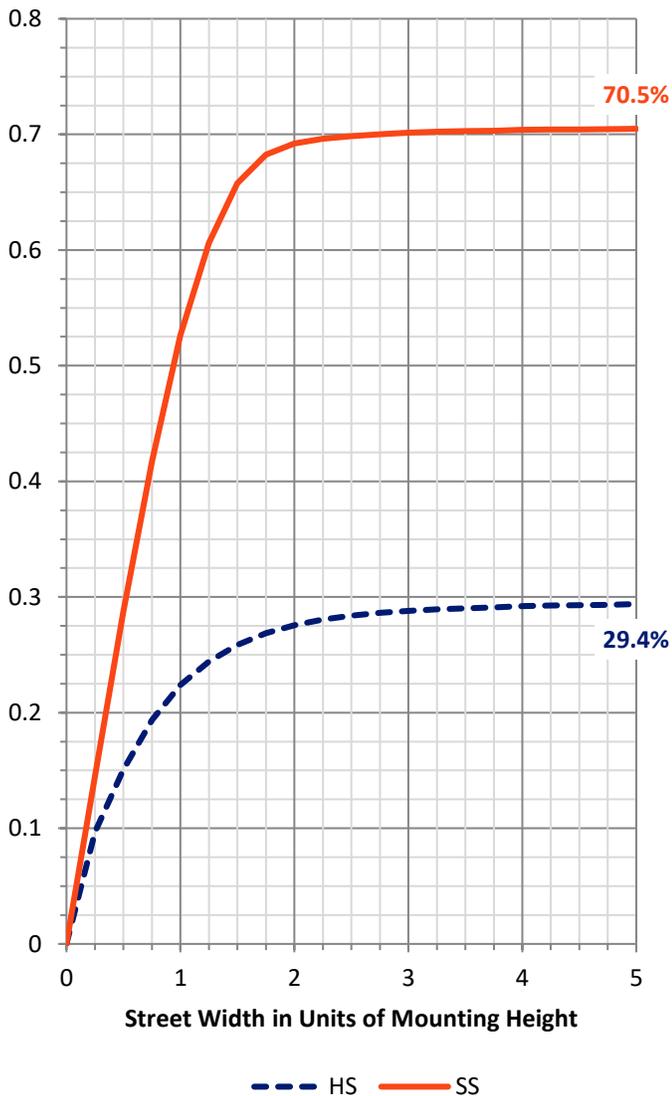
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4550.3	0.0	4550.3
	% Fixture	29.5	0.0	29.5
Street Side	Lumens	10857.7	0.0	10857.7
	% Fixture	70.5	0.0	70.5
Total	Lumens	15408.0	0.0	15408.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	358.4	2.3
10°-20°	980.9	6.4
20°-30°	1678.2	10.9
30°-40°	2572.0	16.7
40°-50°	3476.0	22.6
50°-60°	3992.4	25.9
60°-70°	1819.8	11.8
70°-80°	448.7	2.9
80°-90°	81.5	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°	15408.0	100.0
0°-180°	15408.0	100.0

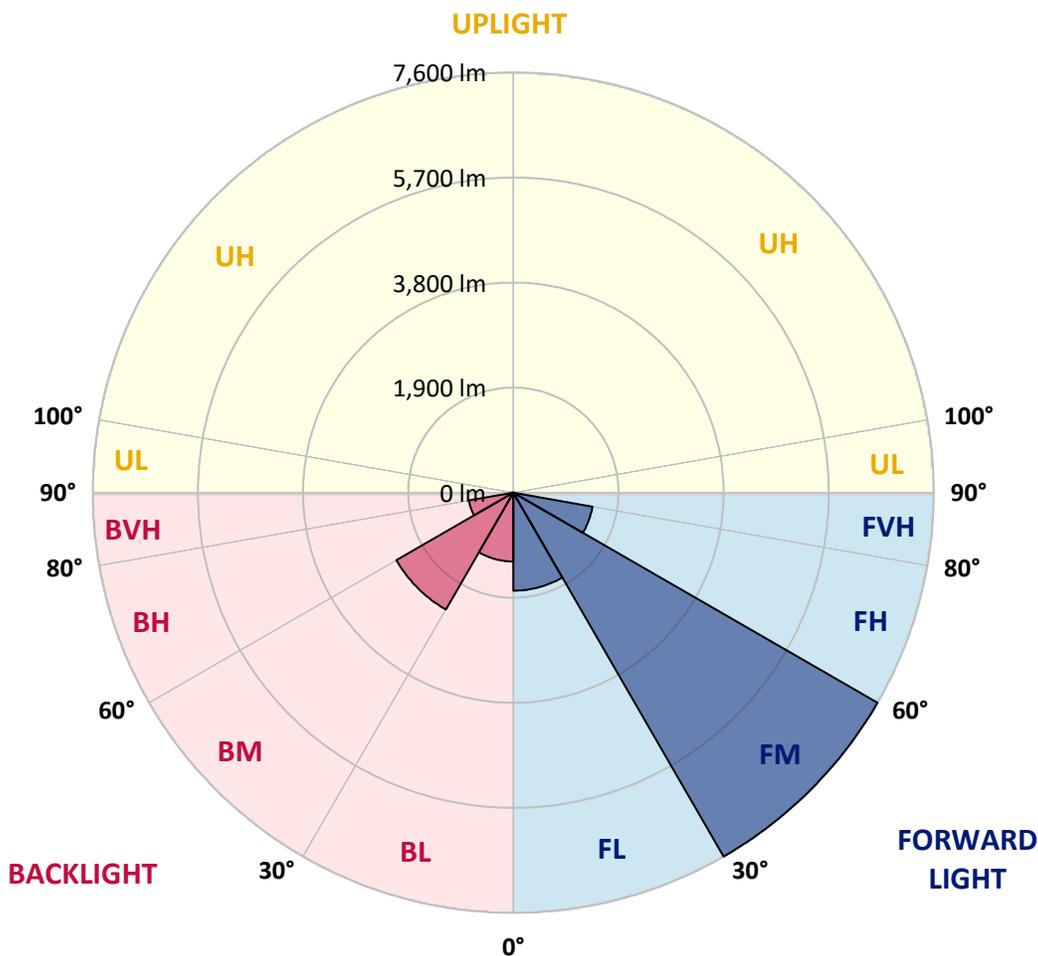


REPORT NUMBER: P650820
 CATALOG NUMBER: GALN-SA3C-840-U-T3R-GRSWH

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1772.8	11.5			
FM (30°-60°)	7599.7	49.3			
FH (60°-80°)	1452.6	9.4			G1/1800
FVH (80°-90°)	32.6	0.2			G1/100
BL (0°-30°)	1244.7	8.1	B3/2500		
BM (30°-60°)	2440.7	15.8	B2/2500		
BH (60°-80°)	815.9	5.3	B2/1000		G2/1000
BVH (80°-90°)	49.0	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2
 Type II Short





REPORT NUMBER: P650820

CATALOG NUMBER: GALN-SA3C-840-U-T3R-GRSWH

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	3942.3	3942.3	3942.3	3942.3	3942.3	3942.3	3942.3	3942.3	3942.3	3942.3	3942.3
2.5°	3750.4	3740.8	3763.8	3781.1	3802.2	3829.1	3842.4	3850.2	3917.3	3900.1	3951.9
5°	3669.7	3644.8	3662.1	3675.5	3712.0	3744.6	3781.1	3838.7	3900.1	3927.0	3990.3
7.5°	3598.7	3585.3	3581.5	3591.1	3640.9	3683.2	3746.5	3831.0	3930.7	3974.9	4011.4
10°	3481.7	3462.5	3491.2	3554.6	3568.0	3656.3	3729.2	3850.2	3936.6	4013.3	4120.8
12.5°	3429.9	3410.7	3416.4	3452.9	3546.9	3631.4	3717.7	3854.0	4036.3	4067.1	4211.0
15°	3512.4	3493.2	3498.9	3489.3	3579.5	3623.7	3759.9	3930.7	4105.4	4157.2	4310.8
17.5°	3700.5	3702.3	3677.4	3656.3	3635.2	3729.2	3823.3	3976.8	4132.3	4262.8	4378.0
20°	4059.3	3996.0	3946.1	3827.1	3794.5	3834.8	3953.8	4101.6	4241.7	4349.1	4479.7
22.5°	4335.8	4341.5	4270.5	4074.7	4003.7	4021.0	4122.7	4243.6	4397.2	4474.0	4623.6
25°	4736.8	4696.6	4619.8	4464.4	4305.1	4318.5	4393.3	4502.7	4544.9	4598.7	4761.8
27.5°	5103.4	5115.0	4963.3	4817.5	4619.8	4581.4	4715.7	4735.0	4663.9	4765.7	4821.4
30°	5475.8	5466.2	5366.4	5195.6	5001.8	5009.4	5069.0	4974.9	4877.0	4932.6	4971.1
32.5°	5861.6	5752.2	5748.4	5594.8	5447.1	5376.0	5303.1	5349.2	5197.5	5209.1	5172.6
35°	6170.6	6186.0	6097.7	5988.3	5915.3	5790.6	5591.0	5673.6	5644.7	5631.3	5473.9
37.5°	6395.2	6335.7	6379.8	6343.3	6274.3	6118.8	5911.5	5990.2	6003.6	6068.9	5886.6
40°	6579.4	6554.5	6671.6	6690.7	6642.8	6306.9	5934.5	6168.7	6370.2	6512.3	6295.4
42.5°	6667.7	6721.4	6844.3	6992.1	6884.6	6525.7	6053.5	6305.0	6754.1	6978.6	6683.1
45°	6786.7	6717.7	6900.0	7170.6	7172.5	6709.9	6168.7	6489.2	7053.5	7379.8	6947.9
47.5°	6665.8	6700.3	6888.5	7232.0	7320.3	6903.8	6479.7	6750.3	7383.6	7673.5	7193.6
50°	6395.2	6464.3	6807.8	7164.8	7431.6	7109.1	6836.7	7032.4	7688.8	7909.5	7233.9
52.5°	6113.1	6151.4	6688.8	7216.6	7481.5	7374.1	7314.5	7422.0	8061.2	8176.3	7283.8
55°	5345.3	5527.6	6295.4	7193.6	7725.3	7851.9	7805.9	7963.3	8483.4	8598.6	7556.4
56°	4990.2	5086.2	6059.3	7086.1	7773.3	8026.6	8003.5	8074.6	8708.0	8828.9	7598.6
57.5°	4333.8	4341.5	5166.9	6610.2	7592.8	8078.4	8055.4	8111.0	8663.8	8581.3	7228.1
60°	2712.0	2831.0	3516.2	5084.3	6456.6	7495.0	7625.4	7178.3	7304.9	7130.3	5623.6
62.5°	1405.0	1387.6	1842.5	2973.0	4285.8	5366.4	5487.4	5466.2	5270.5	5015.2	3673.6
65°	700.6	704.4	963.5	1472.1	2195.7	2809.9	3147.7	3184.2	2664.0	2451.0	1742.7
67.5°	508.6	527.8	692.9	900.1	1034.5	1157.4	1418.3	1391.5	1053.7	1001.9	929.0
70°	395.4	412.7	562.4	687.1	623.8	623.8	679.4	702.5	750.4	771.5	796.5
72.5°	287.9	301.3	429.9	474.1	408.8	439.5	508.6	562.4	612.2	619.9	648.7
75°	197.7	209.2	282.2	261.0	245.7	303.3	372.3	422.3	458.7	477.9	495.2
77.5°	128.6	132.5	161.2	136.2	157.4	195.8	241.9	284.1	320.5	335.9	339.7
80°	57.6	63.3	69.1	86.4	109.4	140.1	172.7	207.3	230.3	236.1	247.6
82.5°	32.6	32.6	42.2	61.4	80.7	101.8	124.7	149.7	176.6	182.3	180.4
85°	17.2	17.2	25.0	36.5	49.9	59.5	57.6	59.5	63.3	72.9	71.0
87.5°	5.7	5.7	7.7	7.7	9.6	11.5	9.6	13.5	17.2	17.2	17.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P650820

CATALOG NUMBER: GALN-SA3C-840-U-T3R-GRSWH

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3942.3	3942.3	3942.3	3942.3	3942.3	3942.3	3942.3	3942.3	3942.3	3942.3	3942.3
2.5°	3936.6	3953.8	3930.7	3980.7	3980.7	3971.1	3923.1	3938.5	3949.9	3949.9	3959.6
5°	4011.4	4005.6	4021.0	3961.4	3925.0	3911.6	3832.9	3794.5	3761.9	3759.9	3731.2
7.5°	4053.6	4038.2	4032.5	3988.4	3827.1	3729.2	3560.4	3462.5	3441.4	3366.5	3395.3
10°	4120.8	4149.6	4120.8	3880.9	3656.3	3431.8	3266.7	3115.1	3055.5	3007.6	2978.8
12.5°	4259.0	4245.5	4078.6	3754.2	3439.4	3172.7	2926.9	2767.6	2708.2	2666.0	2662.1
15°	4376.1	4308.9	4053.6	3554.6	3101.6	2817.6	2616.0	2502.8	2475.9	2479.8	2497.0
17.5°	4416.3	4370.3	3923.1	3347.3	2850.2	2516.3	2422.2	2404.9	2429.9	2458.7	2466.3
20°	4479.7	4406.8	3869.4	3065.2	2539.2	2328.1	2322.3	2383.8	2429.9	2472.1	2477.8
22.5°	4612.1	4427.9	3694.7	2798.3	2326.2	2272.5	2328.1	2379.9	2451.0	2485.5	2454.8
25°	4650.5	4381.8	3449.0	2477.8	2191.9	2237.9	2297.4	2368.4	2418.4	2437.6	2451.0
27.5°	4683.1	4310.8	3117.0	2264.8	2149.7	2236.1	2297.4	2356.9	2383.8	2401.1	2416.4
30°	4775.3	4289.7	2829.0	2122.8	2122.8	2197.6	2276.3	2291.6	2328.1	2349.2	2376.2
32.5°	4821.4	4143.8	2533.5	2032.5	2095.9	2216.8	2222.6	2251.4	2253.3	2270.5	2241.8
35°	4942.2	4040.2	2259.0	1967.3	2107.4	2197.6	2226.4	2209.1	2115.1	2069.0	2078.6
37.5°	5030.5	3988.4	2061.4	1959.6	2109.3	2218.7	2234.1	2103.6	2005.7	1928.9	1948.1
40°	5268.5	3859.8	1911.7	1946.2	2126.6	2241.8	2199.6	2057.5	1880.9	1802.3	1788.8
42.5°	5450.9	3767.6	1817.6	1930.9	2140.0	2274.4	2182.3	1965.4	1784.9	1712.0	1731.2
45°	5662.0	3746.5	1767.7	1934.6	2163.1	2291.6	2161.1	1894.4	1702.4	1673.7	1667.9
47.5°	5736.9	3594.9	1714.0	1902.1	2157.3	2285.9	2090.1	1840.6	1671.7	1675.6	1690.9
50°	5612.1	3439.4	1673.7	1834.9	2118.9	2234.1	1978.8	1769.6	1654.4	1702.4	1729.3
52.5°	5452.8	3280.2	1591.1	1744.7	2040.3	2153.5	1927.0	1765.8	1637.2	1621.9	1627.6
55°	5500.8	3149.6	1476.0	1621.9	1913.5	2003.8	1869.5	1729.3	1595.0	1537.3	1556.6
56°	5345.3	3015.2	1401.1	1545.1	1827.2	1907.8	1840.6	1696.7	1560.4	1522.0	1522.0
57.5°	4905.8	2564.2	1303.2	1422.2	1644.8	1740.8	1784.9	1677.5	1522.0	1454.8	1456.8
60°	3617.9	1823.4	1168.9	1253.3	1362.8	1439.5	1644.8	1623.7	1426.1	1380.0	1362.8
62.5°	2230.2	1332.0	1072.9	1105.5	1161.2	1224.5	1435.7	1470.2	1324.3	1274.5	1262.9
65°	1249.5	1019.1	999.9	1013.4	1040.2	1072.9	1191.9	1268.6	1168.9	1092.1	1088.3
67.5°	913.6	911.6	927.0	938.6	950.1	950.1	978.8	1009.5	996.2	934.7	929.0
70°	811.9	817.6	829.1	831.1	834.9	821.5	798.4	788.9	804.2	765.8	758.2
72.5°	669.9	689.0	702.5	704.4	683.3	666.0	635.3	602.7	591.1	583.5	581.6
75°	514.4	527.8	533.5	531.7	523.9	499.0	462.6	429.9	408.8	385.8	397.3
77.5°	347.4	366.6	376.2	376.2	364.7	326.3	309.0	284.1	263.0	238.0	241.9
80°	243.7	257.2	272.6	270.6	251.5	232.2	207.3	184.3	167.0	147.8	145.8
82.5°	182.3	190.0	197.7	193.9	180.4	161.2	144.0	122.9	103.6	90.2	90.2
85°	65.3	71.0	86.4	90.2	97.9	97.9	82.5	69.1	55.7	46.1	46.1
87.5°	19.2	19.2	21.1	21.1	19.2	21.1	17.2	19.2	21.1	13.5	13.5
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)