

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: P650980

Luminaire Tested: **GALN-SA6C-840-U-T2**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P650980
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-10)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA6C-840-U-T2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 35260.6 lumens
Efficiency: N/A
Efficacy: 109.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G4

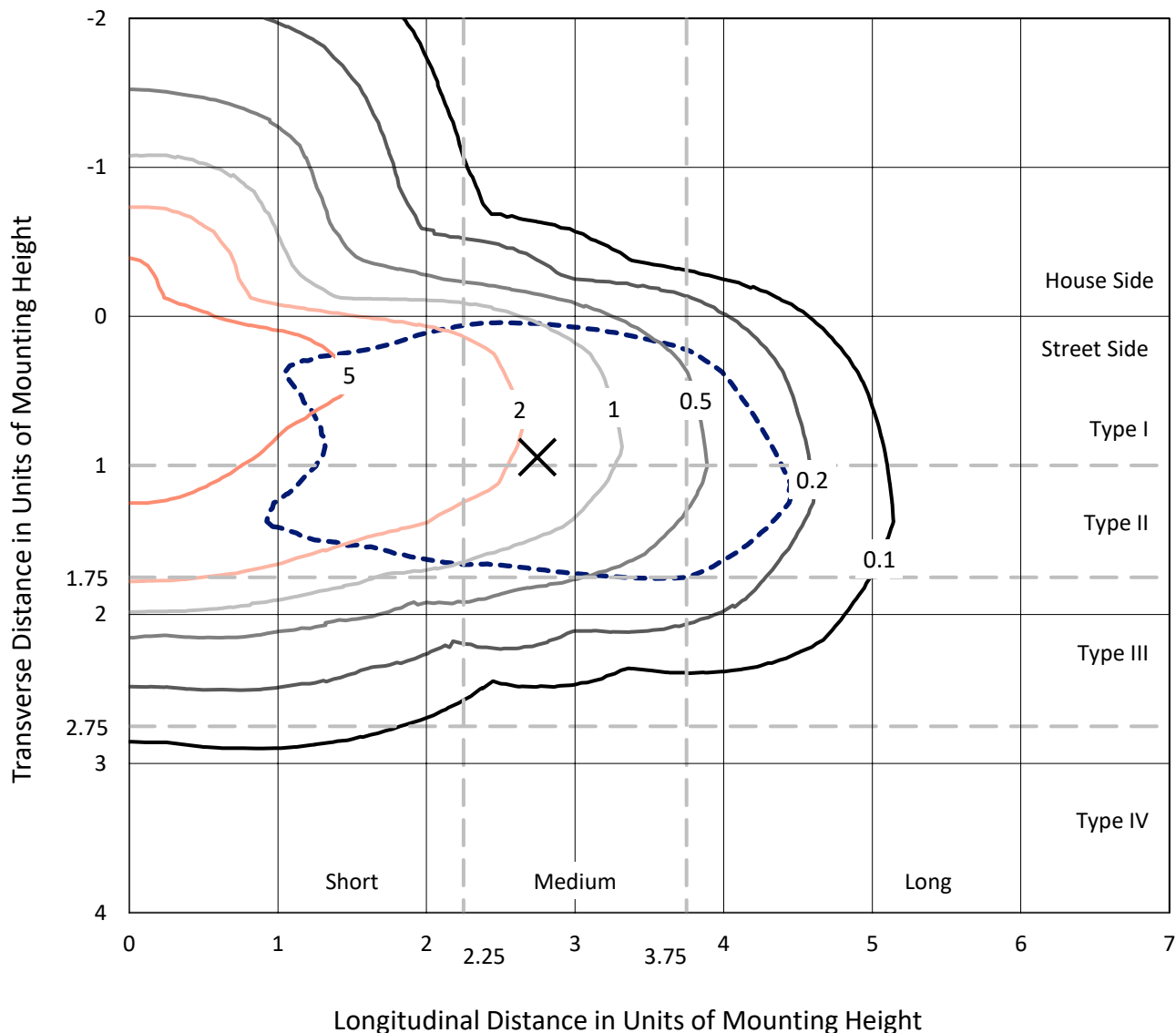
Input Watts (W): 321
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

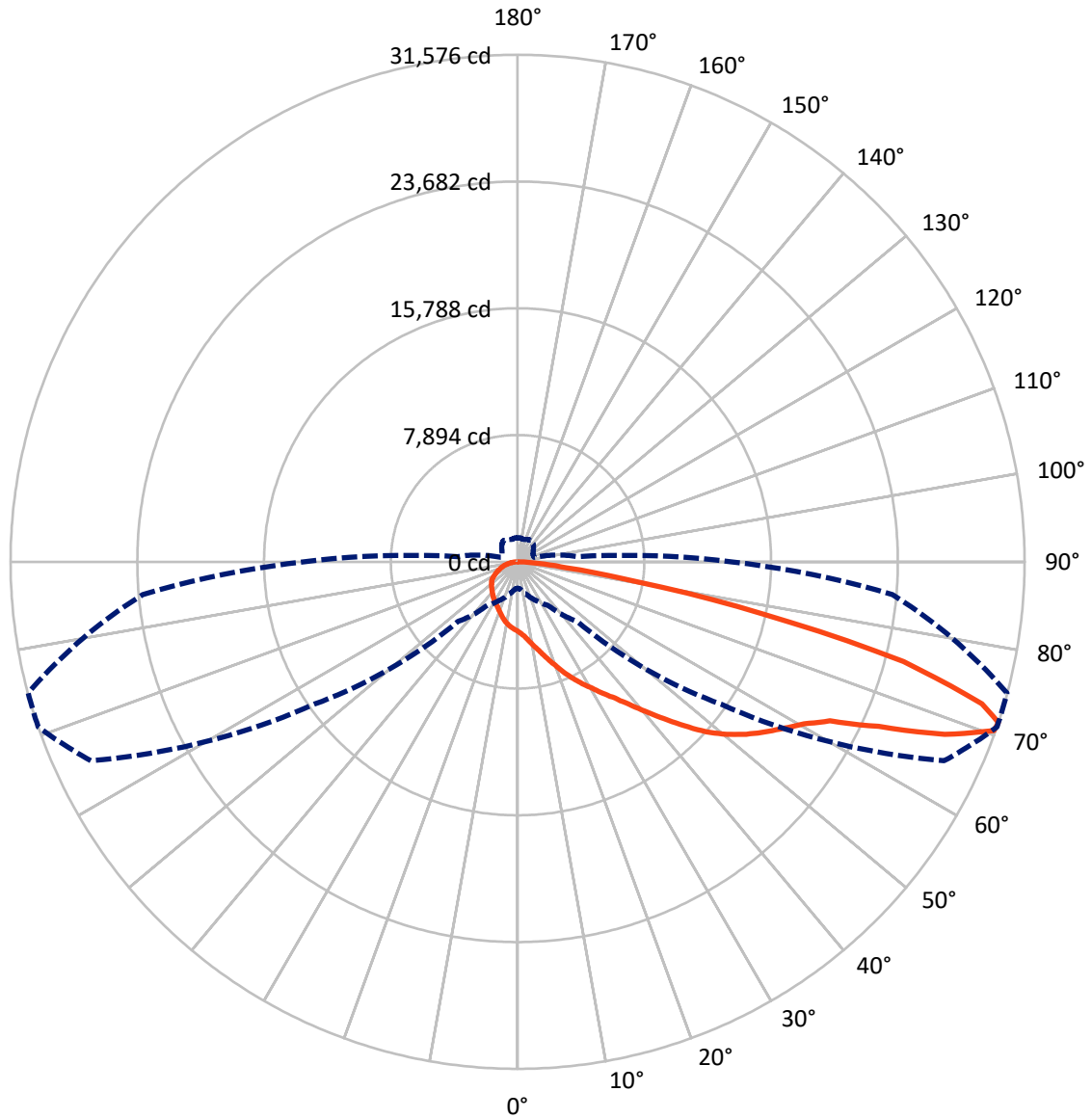
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.8 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 71-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6341.5	0.0	6341.5
	% Fixture	18.0	0.0	18.0
Street Side	Lumens	28919.1	0.0	28919.1
	% Fixture	82.0	0.0	82.0
Total	Lumens	35260.6	0.0	35260.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	434.5	1.2
10°-20°	1411.7	4.0
20°-30°	2467.1	7.0
30°-40°	3669.4	10.4
40°-50°	5406.5	15.3
50°-60°	7569.1	21.5
60°-70°	8465.8	24.0
70°-80°	5171.3	14.7
80°-90°	665.2	1.9
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°	35260.6	100.0
0°-180°	35260.6	100.0

Coefficient of Utilization

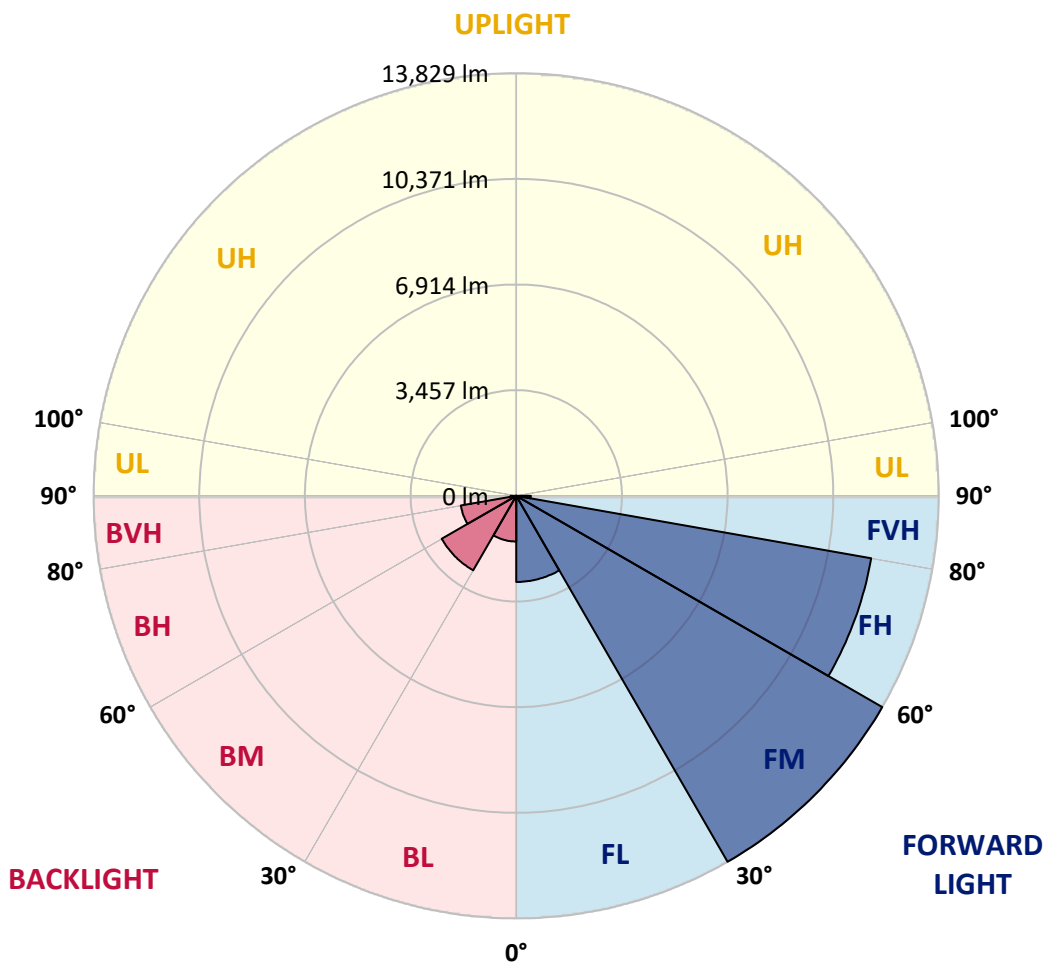


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2817.3	8.0			
FM (30°-60°)	13828.5	39.2			
FH (60°-80°)	11794.6	33.4			G4/12000
FVH (80°-90°)	478.7	1.4			G3/500
BL (0°-30°)	1495.9	4.2	B3/2500		
BM (30°-60°)	2816.5	8.0	B3/5000		
BH (60°-80°)	1842.5	5.2	B3/2500		G3/2500
BVH (80°-90°)	186.6	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4
 Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	71°	75°	85°
0°	4327.5	4327.5	4327.5	4327.5	4327.5	4327.5	4327.5	4327.5	4327.5	4327.5	4327.5
2.5°	4804.3	4781.0	4782.9	4750.1	4707.4	4660.9	4595.0	4536.9	4490.4	4463.2	4383.7
5°	5323.7	5300.4	5271.4	5199.7	5168.6	5054.3	4908.9	4777.1	4676.4	4620.2	4461.3
7.5°	5744.2	5738.4	5730.7	5690.0	5610.5	5451.6	5327.6	5098.9	4949.6	4843.1	4571.8
10°	6003.9	6013.6	6019.4	6027.2	5994.2	5910.9	5740.3	5451.6	5261.6	5126.0	4715.2
12.5°	6135.7	6145.4	6178.3	6250.1	6294.6	6285.0	6145.4	5862.4	5600.8	5422.5	4868.2
15°	6217.1	6232.6	6290.8	6385.7	6534.9	6629.9	6562.1	6300.4	6013.6	5802.4	5050.5
17.5°	6306.2	6323.6	6387.6	6523.3	6719.0	6924.5	6998.1	6773.3	6461.3	6209.4	5253.9
20°	6356.6	6379.9	6471.0	6649.3	6878.0	7176.4	7420.6	7302.4	6961.3	6682.2	5488.4
22.5°	6438.0	6457.4	6534.9	6724.8	6998.1	7372.1	7843.1	7817.9	7517.4	7157.0	5746.1
25°	6659.0	6690.0	6728.8	6843.0	7106.6	7571.8	8193.9	8368.3	8056.3	7653.2	5982.6
27.5°	7075.6	7100.8	7098.9	7114.4	7263.6	7744.3	8498.1	8912.8	8591.2	8155.1	6211.3
30°	7550.4	7560.1	7567.9	7533.0	7566.0	7920.6	8777.2	9451.6	9129.9	8670.6	6410.9
32.5°	8127.9	8147.4	8081.4	7992.3	7965.2	8182.3	9007.8	9990.4	9767.5	9193.8	6608.6
35°	8810.1	8860.5	8726.8	8569.8	8459.4	8558.2	9317.9	10540.8	10420.6	9862.5	6870.2
37.5°	9589.2	9651.2	9527.2	9219.0	9062.0	9089.2	9722.9	11221.0	11246.2	10624.1	7259.8
40°	10226.8	10308.2	10312.1	9876.0	9637.7	9668.6	10236.5	11953.6	12242.4	11565.9	7719.0
42.5°	10647.3	10726.8	10810.1	10554.3	10304.4	10480.7	10835.4	12748.1	13362.5	12709.4	8360.5
45°	11108.6	11180.3	11226.8	11110.5	10971.0	11428.3	11558.2	13593.1	14556.3	13986.5	9062.0
47.5°	11643.5	11723.0	11767.5	11657.0	11604.7	12259.8	12337.3	14381.9	15831.5	15226.8	9837.3
50°	12356.6	12416.8	12393.5	12323.7	12312.1	12897.3	13085.4	15120.3	16883.8	16562.1	10641.5
52.5°	13244.2	13316.0	13341.1	13242.3	13197.7	13352.8	13688.0	15792.7	17841.2	17709.4	11500.1
55°	13781.0	13895.4	14279.2	14434.2	14540.8	13941.9	14337.3	16535.0	18699.7	18918.7	12422.6
57.5°	13093.1	13240.4	14098.9	14874.1	15876.1	15414.9	15257.8	17310.1	19558.2	20091.2	13527.2
60°	11414.8	11447.8	12554.4	13982.6	15998.2	17308.2	17178.4	18542.7	20488.5	21273.3	14982.7
62.5°	7918.7	7988.4	9296.6	11575.6	14490.4	17990.4	20445.9	20670.7	21821.8	23042.7	17116.4
65°	4083.4	3992.3	5184.2	7275.2	10924.5	16370.2	23093.2	24583.4	24713.3	25810.2	20120.3
67.5°	2513.6	2554.3	3112.5	4248.1	6459.3	11897.4	22816.0	29364.5	28680.4	29207.5	22909.0
70°	1887.6	1938.0	2321.7	2907.0	3938.0	6802.3	18348.9	30523.4	31478.9	31343.2	23757.9
71°	1641.5	1693.8	2093.0	2645.4	3308.2	5250.0	15459.4	29310.3	31575.8	31552.5	23438.1
72.5°	1399.3	1432.1	1744.2	2240.3	2788.8	3680.2	11614.4	26287.0	30228.8	31002.1	22296.7
75°	1098.9	1124.0	1263.6	1709.3	2195.8	2259.7	6232.6	19707.5	24827.7	26300.5	18562.1
77.5°	895.3	912.8	984.5	1269.4	1693.8	1600.8	3269.4	12827.6	15554.4	17036.9	10934.2
80°	711.2	730.7	773.3	860.5	1269.4	1141.5	1560.1	6500.0	7513.6	7498.1	4364.4
82.5°	552.4	558.2	608.5	631.8	868.2	810.1	845.0	2751.9	3048.5	3149.2	1575.6
85°	348.8	366.3	538.7	484.5	519.4	474.8	416.6	1093.0	1346.9	1327.5	629.8
87.5°	106.6	112.4	182.2	205.5	230.6	207.4	153.1	321.7	393.4	426.4	157.0
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°	4327.5	4327.5	4327.5	4327.5	4327.5	4327.5	4327.5	4327.5	4327.5	4327.5	4327.5
2.5°	4352.8	4331.4	4255.8	4193.8	4135.7	4071.7	4017.5	4002.0	3988.4	3982.6	3980.6
5°	4393.5	4329.5	4180.3	4058.2	3961.3	3872.1	3816.0	3790.7	3765.5	3765.5	3773.3
7.5°	4451.6	4335.3	4104.7	3922.5	3800.4	3717.1	3676.3	3672.5	3678.3	3684.2	3686.1
10°	4515.5	4331.4	3994.2	3767.4	3658.9	3620.2	3622.1	3655.1	3686.1	3709.3	3713.2
12.5°	4577.6	4308.2	3864.4	3622.1	3552.4	3560.1	3614.4	3688.0	3748.1	3781.1	3783.0
15°	4647.3	4271.4	3707.4	3484.5	3461.2	3521.4	3622.1	3734.5	3825.6	3879.9	3885.7
17.5°	4705.5	4209.3	3542.6	3350.8	3379.9	3490.3	3629.8	3775.2	3885.7	3953.5	3965.1
20°	4771.3	4129.9	3372.1	3222.9	3306.2	3455.4	3614.4	3771.4	3885.7	3951.6	3967.1
22.5°	4823.6	4017.5	3209.3	3118.3	3240.3	3412.8	3562.1	3688.0	3781.1	3816.0	3839.2
25°	4845.0	3876.0	3056.2	3033.0	3188.0	3343.1	3443.8	3515.5	3544.6	3540.7	3550.4
27.5°	4833.4	3713.2	2924.4	2965.1	3122.1	3234.5	3284.9	3279.1	3226.7	3178.3	3201.6
30°	4784.9	3519.4	2814.0	2895.4	3036.9	3098.8	3091.1	3015.5	2916.7	2825.6	2831.4
32.5°	4697.7	3310.1	2711.2	2815.9	2916.7	2943.8	2891.5	2792.6	2651.2	2532.9	2515.5
35°	4624.1	3110.5	2620.1	2724.8	2796.5	2783.0	2732.6	2604.7	2476.7	2372.1	2354.6
37.5°	4612.5	2940.0	2532.9	2622.1	2662.8	2643.4	2581.4	2472.9	2426.4	2346.9	2337.2
40°	4674.4	2819.8	2443.8	2513.6	2532.9	2517.4	2449.7	2387.6	2430.2	2410.9	2410.9
42.5°	4843.1	2755.8	2364.4	2405.1	2420.6	2432.2	2383.7	2331.4	2383.7	2294.6	2265.5
45°	5110.5	2757.8	2292.7	2298.5	2345.0	2385.7	2352.7	2275.2	2248.1	2069.8	2034.9
47.5°	5503.9	2823.7	2234.5	2197.7	2281.0	2348.8	2302.3	2190.0	2069.8	1951.5	1930.3
50°	5963.2	2941.9	2182.1	2093.0	2195.8	2302.3	2267.4	2135.6	2011.7	1939.9	1926.4
52.5°	6472.9	3091.1	2118.2	1976.8	2091.1	2281.0	2275.2	2127.9	1957.3	1908.9	1897.3
55°	7102.7	3238.4	2038.8	1841.1	1998.0	2263.6	2253.9	2064.0	1945.7	1910.8	1907.0
57.5°	7835.3	3451.5	1924.5	1703.5	1891.5	2191.9	2170.5	2025.2	1907.0	1881.8	1879.9
60°	9015.5	3783.0	1761.6	1577.5	1782.9	2065.9	2093.0	1959.3	1845.0	1839.2	1837.2
62.5°	10567.9	4248.1	1593.0	1447.7	1657.0	1903.1	1980.6	1870.1	1779.1	1808.2	1812.0
65°	12711.3	4639.5	1418.6	1337.2	1517.4	1746.2	1874.0	1786.9	1705.5	1761.6	1761.6
67.5°	14108.6	4647.3	1259.7	1222.9	1376.0	1614.4	1761.6	1688.0	1610.5	1705.5	1709.3
70°	13817.9	4071.7	1127.9	1102.7	1238.4	1472.8	1637.6	1579.5	1490.3	1575.6	1544.6
71°	13348.9	3752.0	1075.6	1056.2	1184.1	1405.1	1579.5	1531.0	1441.9	1498.1	1480.7
72.5°	12600.9	3257.8	990.3	994.2	1102.7	1319.8	1498.1	1447.7	1358.6	1389.6	1383.7
75°	10651.3	2845.0	846.9	864.4	947.6	1174.5	1335.3	1296.5	1205.4	1205.4	1199.6
77.5°	6659.0	1988.4	703.5	713.2	804.2	1005.8	1147.3	1114.3	1027.1	998.1	990.3
80°	2484.5	1027.1	550.4	562.0	618.2	792.6	949.7	918.6	829.5	796.5	765.5
82.5°	939.9	515.5	405.0	395.4	455.4	604.7	744.2	707.4	637.6	558.2	534.9
85°	354.6	255.8	248.1	240.3	267.4	358.5	461.2	453.5	379.9	323.6	317.8
87.5°	93.0	83.3	96.9	71.7	75.6	67.9	69.8	29.1	13.5	5.8	3.9
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)