

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: P522805

Luminaire Tested: **GALN-SA6B-735-U-T4W**

Issue Date: 5/13/2021

Test Information

Test Method: LM-79-08
Report Number: P522805
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2011-042-41)
Test Lab: INNOVATION CENTER
Issue Date: 5/13/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA6B-735-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31455 lumens
Efficiency: N/A
Efficacy: 129.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

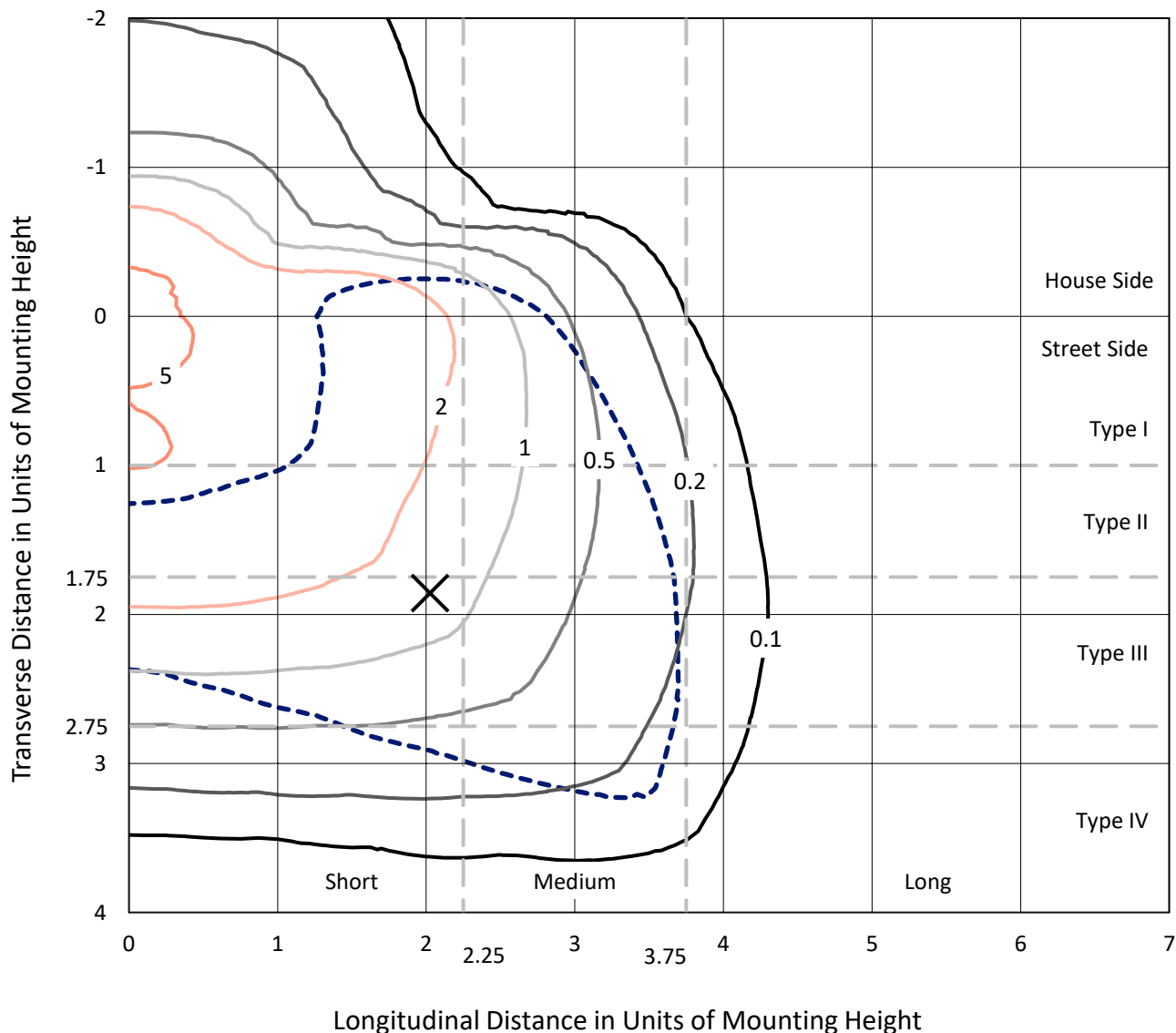
Input Watts (W): 243
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

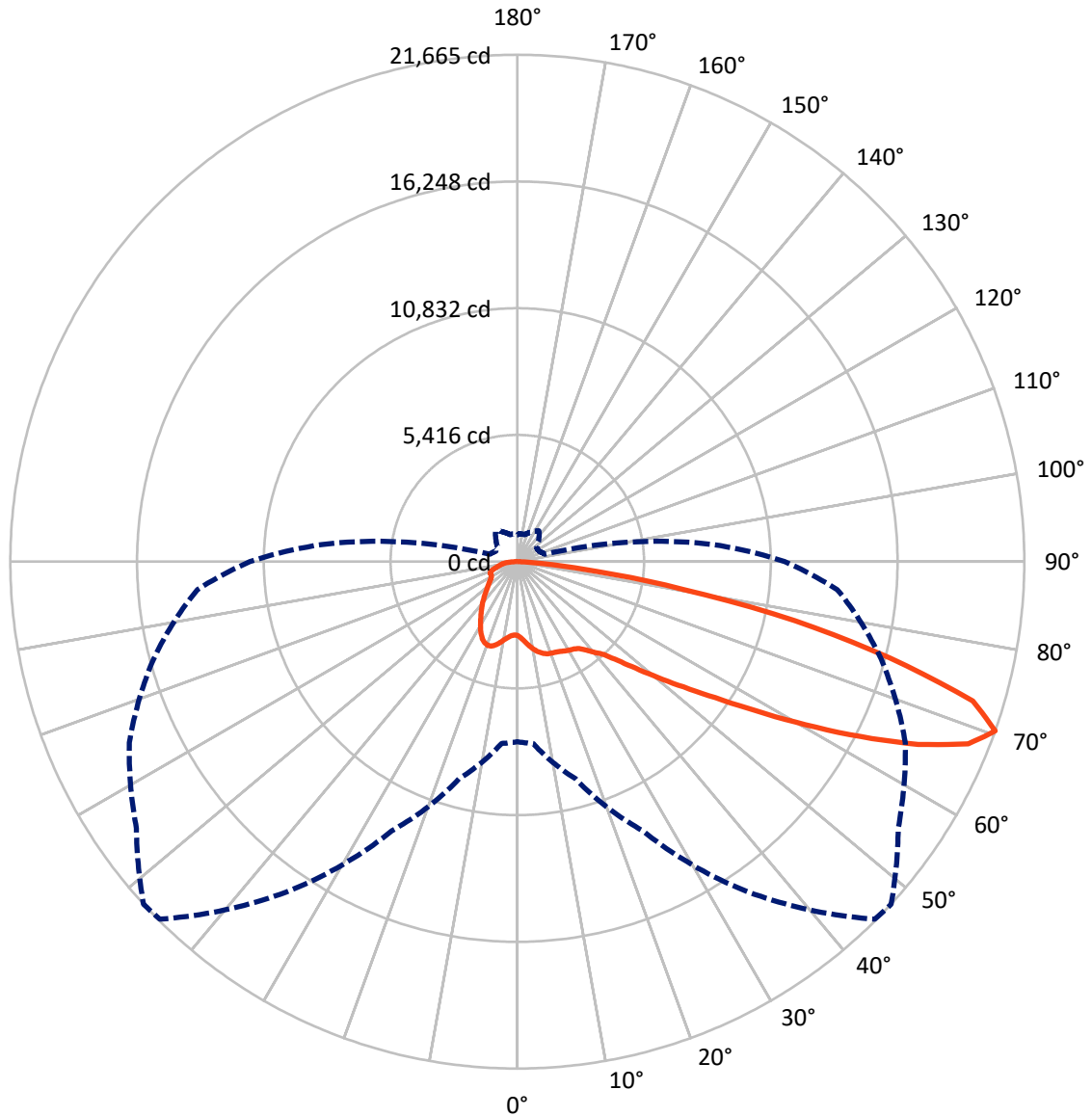
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.4 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 47.5-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7122.0	0.0	7122.0
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	24333.0	0.0	24333.0
	% Fixture	77.4	0.0	77.4
Total	Lumens	31455.0	0.0	31455.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	325.5	1.0
10°-20°	1088.2	3.5
20°-30°	1809.6	5.8
30°-40°	2564.8	8.2
40°-50°	3786.2	12.0
50°-60°	6557.9	20.8
60°-70°	9263.2	29.4
70°-80°	5325.0	16.9
80°-90°	734.7	2.3
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°	31455.0	100.0
0°-180°	31455.0	100.0

Coefficient of Utilization



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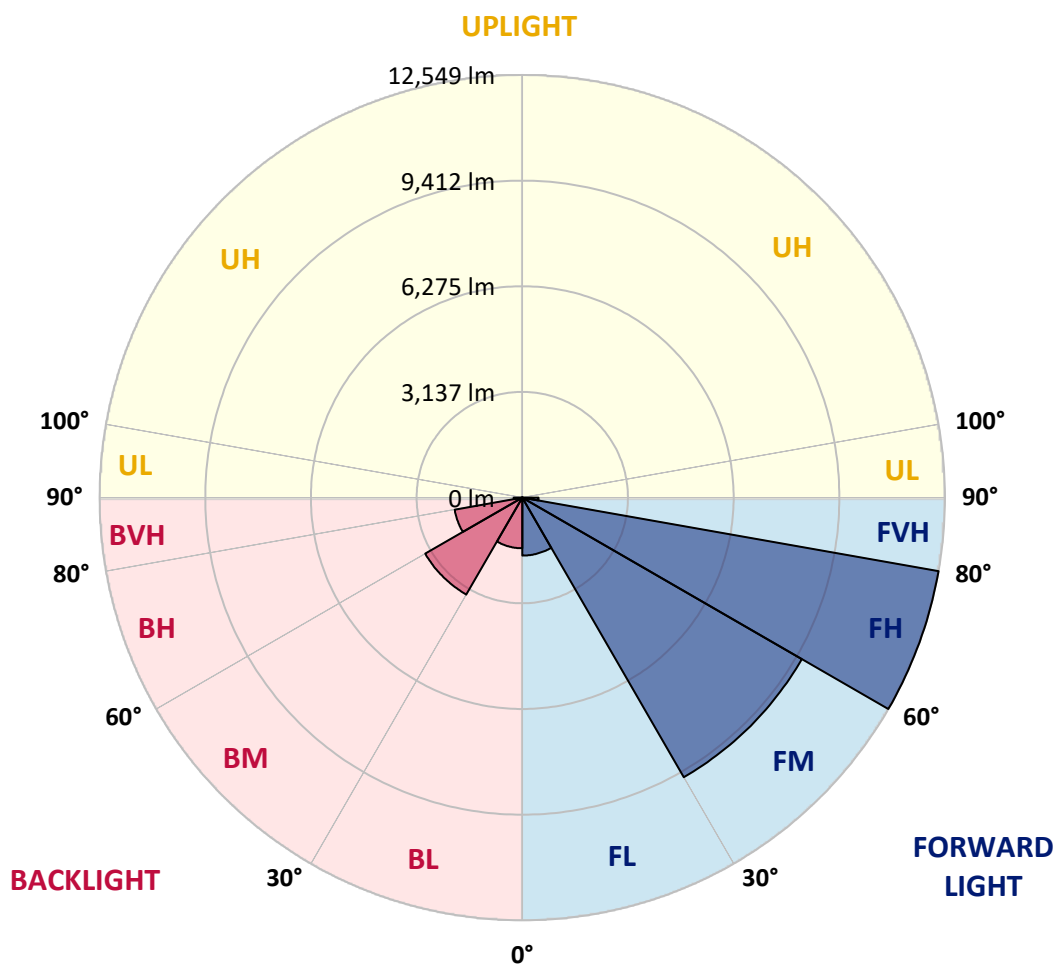
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1720.1	5.5			
FM	(30°-60°)	9583.7	30.5			
FH	(60°-80°)	12549.2	39.9			G5
FVH	(80°-90°)	479.9	1.5			G3/500
BL	(0°-30°)	1503.1	4.8	B3/2500		
BM	(30°-60°)	3325.1	10.6	B3/5000		
BH	(60°-80°)	2038.9	6.5	B3/2500		G3/2500
BVH	(80°-90°)	254.8	0.8			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47.5°	55°	65°	75°	85°
0°	3157.7	3157.7	3157.7	3157.7	3157.7	3157.7	3157.7	3157.7	3157.7	3157.7	3157.7
2.5°	3361.4	3349.6	3347.9	3322.7	3309.2	3283.9	3273.8	3250.3	3221.7	3193.1	3166.1
5°	3625.6	3625.6	3613.9	3578.5	3523.0	3465.7	3440.5	3395.0	3314.2	3248.6	3193.1
7.5°	3896.6	3900.0	3876.4	3824.3	3745.1	3652.6	3629.0	3561.7	3447.2	3351.3	3268.8
10°	4130.6	4130.6	4098.6	4027.9	3928.6	3827.6	3804.1	3728.3	3600.4	3480.9	3373.2
12.5°	4309.0	4309.0	4266.9	4174.4	4066.6	3975.7	3948.8	3876.4	3756.9	3624.0	3487.6
15°	4425.2	4416.7	4369.6	4265.3	4160.9	4081.8	4063.3	4002.7	3893.3	3758.6	3605.4
17.5°	4430.2	4426.8	4381.4	4293.9	4203.0	4149.1	4137.3	4096.9	4011.1	3883.2	3721.6
20°	4332.6	4339.3	4309.0	4246.7	4203.0	4179.4	4174.4	4160.9	4100.3	3980.8	3819.2
22.5°	4228.2	4240.0	4211.4	4177.7	4174.4	4197.9	4201.3	4204.7	4165.9	4049.8	3901.7
25°	4203.0	4211.4	4182.8	4152.5	4171.0	4233.3	4246.7	4260.2	4229.9	4132.3	3999.3
27.5°	4330.9	4324.2	4268.6	4203.0	4214.8	4298.9	4317.4	4332.6	4317.4	4233.3	4120.5
30°	4692.8	4670.9	4559.8	4367.9	4307.3	4366.2	4384.8	4426.8	4426.8	4364.6	4251.8
32.5°	5298.7	5256.7	5053.0	4676.0	4465.6	4430.2	4448.7	4517.7	4553.1	4504.3	4381.4
35°	6034.3	5990.5	5699.4	5192.7	4755.1	4558.1	4553.1	4630.5	4724.8	4615.4	4455.5
37.5°	6773.2	6727.8	6377.7	5808.8	5177.6	4827.4	4797.2	4824.1	4864.5	4664.2	4558.1
40°	7512.2	7458.3	7152.0	6497.2	5694.3	5184.3	5105.2	4984.0	4967.2	4824.1	4756.8
42.5°	8244.4	8195.6	8040.7	7269.8	6313.7	5532.7	5411.5	5202.8	5266.8	5180.9	5122.0
45°	8983.3	8986.7	8821.7	8136.6	7061.1	6175.7	6012.4	5685.9	5837.4	5805.4	5839.1
47.5°	9638.1	9629.6	9570.7	8978.2	7988.5	7003.8	6793.4	6414.7	6673.9	6791.8	7049.3
50°	10272.6	10267.6	10271.0	9932.6	9065.8	7988.5	7756.2	7359.0	7943.1	8352.1	8813.3
52.5°	11181.6	11210.2	11006.5	10917.3	10375.3	9151.6	8895.8	8485.1	9442.8	10087.5	10988.0
55°	12093.9	12070.3	11910.4	12003.0	11745.4	10528.5	10260.9	9934.3	11112.6	11817.8	13171.1
57.5°	12630.8	12639.2	12802.5	13255.3	13437.1	12245.4	12003.0	11750.5	12989.3	13489.3	15113.6
60°	13113.9	13152.6	13622.2	14477.3	14970.5	14354.4	14139.0	13893.2	14711.3	14909.9	16800.1
62.5°	13265.4	13384.9	14204.6	15483.9	16465.2	16734.5	16466.9	15924.9	16350.7	16273.3	17943.0
65°	12509.6	12672.9	14142.3	15860.9	17800.0	18993.4	18823.3	17816.8	17747.8	17281.5	18129.9
67.5°	10520.1	10683.3	12570.2	15069.8	18352.0	20949.2	20779.2	19197.0	18596.1	17375.8	16716.0
70°	7697.3	7800.0	9604.4	12688.0	17242.8	21605.7	21664.6	19870.3	18293.1	16094.9	13724.9
72.5°	4435.3	4662.5	5926.6	8926.1	14086.8	19946.0	20355.1	18469.9	16377.6	13427.0	9596.0
75°	1907.1	1912.1	2740.3	4923.4	9540.4	16032.6	16428.1	15310.5	12861.4	9284.6	5123.7
77.5°	907.3	924.1	1205.2	2198.3	5251.6	11077.2	12144.4	10816.3	8225.9	4460.5	1935.7
80°	589.1	600.9	737.2	1090.7	2575.3	6423.1	7167.1	6239.7	3629.0	1594.0	834.9
82.5°	356.8	360.2	493.2	666.6	1417.3	2908.6	3428.7	2708.3	1548.6	954.4	491.5
85°	217.1	218.8	299.6	412.4	860.1	1004.9	1031.8	1023.4	908.9	624.5	262.6
87.5°	104.4	107.7	154.9	195.3	338.3	311.4	294.6	341.7	429.2	336.6	112.8
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°	3157.7	3157.7	3157.7	3157.7	3157.7	3157.7	3157.7	3157.7	3157.7	3157.7	3157.7
2.5°	3154.3	3149.3	3137.5	3132.5	3129.1	3130.8	3129.1	3129.1	3130.8	3130.8	3130.8
5°	3169.5	3161.1	3142.6	3142.6	3152.7	3176.2	3198.1	3214.9	3233.4	3231.8	3231.8
7.5°	3235.1	3220.0	3198.1	3204.8	3230.1	3267.1	3305.8	3342.9	3379.9	3383.3	3381.6
10°	3331.1	3315.9	3292.4	3300.8	3341.2	3396.7	3445.5	3499.4	3539.8	3551.6	3548.2
12.5°	3440.5	3410.2	3390.0	3413.6	3477.5	3551.6	3598.7	3639.1	3667.7	3684.5	3677.8
15°	3551.6	3523.0	3499.4	3548.2	3625.6	3694.6	3718.2	3724.9	3730.0	3746.8	3743.5
17.5°	3659.3	3620.6	3612.2	3676.1	3750.2	3780.5	3767.0	3738.4	3716.5	3730.0	3728.3
20°	3755.2	3724.9	3721.6	3785.5	3814.2	3785.5	3728.3	3677.8	3639.1	3642.5	3640.8
22.5°	3846.1	3822.6	3825.9	3852.9	3807.4	3709.8	3615.5	3546.5	3504.4	3512.9	3517.9
25°	3947.1	3923.6	3932.0	3888.2	3738.4	3568.4	3432.1	3373.2	3356.3	3373.2	3384.9
27.5°	4078.4	4063.3	4058.2	3889.9	3615.5	3359.7	3204.8	3183.0	3198.1	3235.1	3253.6
30°	4219.8	4219.8	4192.9	3861.3	3447.2	3108.9	2974.2	2977.6	3029.8	3082.0	3100.5
32.5°	4356.1	4384.8	4300.6	3783.9	3230.1	2864.8	2762.1	2765.5	2811.0	2874.9	2891.8
35°	4468.9	4551.4	4393.2	3642.5	2974.2	2659.5	2582.0	2536.6	2538.3	2587.1	2600.6
37.5°	4623.8	4777.0	4447.0	3432.1	2701.6	2484.4	2396.9	2317.8	2265.6	2245.4	2245.4
40°	4893.1	5118.6	4460.5	3120.7	2444.0	2317.8	2193.2	2099.0	1998.0	1907.1	1890.2
42.5°	5349.2	5633.7	4433.6	2762.1	2211.7	2134.3	2013.1	1897.0	1757.3	1629.3	1619.2
45°	6157.2	6303.6	4361.2	2390.2	2004.7	1957.6	1839.7	1713.5	1565.4	1450.9	1442.5
47.5°	7451.6	7244.5	4265.3	2060.3	1816.2	1802.7	1711.8	1565.4	1417.3	1338.2	1329.7
50°	9341.8	8725.8	4251.8	1821.2	1664.7	1671.4	1597.4	1462.7	1333.1	1267.5	1257.4
52.5°	11617.5	10515.0	4341.0	1652.9	1531.7	1557.0	1519.9	1395.4	1280.9	1225.4	1215.3
55°	13825.9	12124.2	4394.9	1521.6	1407.2	1454.3	1459.3	1355.0	1250.6	1195.1	1188.3
57.5°	15618.5	13336.1	4155.8	1402.1	1299.4	1371.8	1408.8	1331.4	1235.5	1193.4	1186.7
60°	16865.8	13908.4	3475.8	1296.1	1220.3	1306.2	1390.3	1333.1	1272.5	1277.6	1280.9
62.5°	17263.0	13654.2	2607.3	1217.0	1166.5	1284.3	1420.6	1402.1	1339.8	1378.5	1385.3
65°	16604.9	12603.9	1890.2	1154.7	1119.3	1299.4	1511.5	1452.6	1316.3	1344.9	1344.9
67.5°	14401.6	10858.4	1471.1	1097.5	1065.5	1328.1	1602.4	1447.6	1260.7	1294.4	1264.1
70°	11424.0	8399.2	1225.4	1033.5	1008.2	1286.0	1610.8	1395.4	1195.1	1201.8	1144.6
72.5°	7581.2	5522.6	1053.7	972.9	920.7	1156.4	1541.8	1328.1	1131.1	1092.4	1035.2
75°	3714.8	2753.7	919.0	897.2	806.3	1006.6	1447.6	1264.1	1062.1	1001.5	969.5
77.5°	1439.1	1171.5	784.4	801.2	701.9	887.1	1323.0	1173.2	971.2	888.7	863.5
80°	698.5	664.9	643.0	668.2	577.3	755.8	1208.5	1094.1	887.1	796.2	759.1
82.5°	434.3	410.7	493.2	520.1	444.4	690.1	1146.3	1026.8	781.0	659.8	629.5
85°	220.5	235.6	329.9	355.2	318.1	548.7	944.3	770.9	563.9	467.9	471.3
87.5°	84.2	112.8	173.4	186.8	170.0	289.5	520.1	449.4	361.9	245.7	227.2
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)