

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: P454856

Luminaire Tested: **GALN-SA6A-727-U-T4FT**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P454856
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-28)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA6A-727-U-T4FT
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22629 lumens
Efficiency: N/A
Efficacy: 124.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

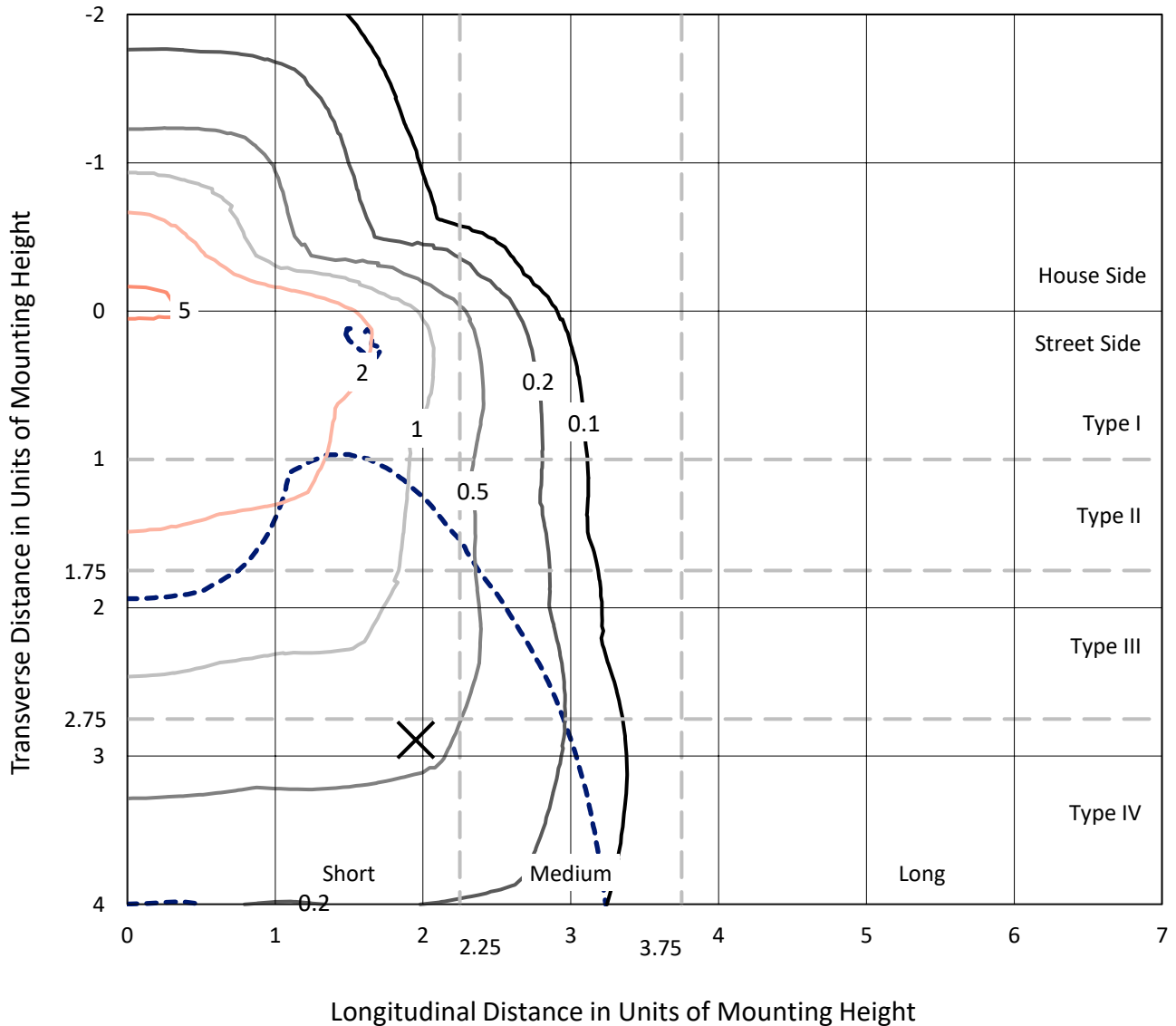
Input Watts (W): 182
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P454856
 CATALOG NUMBER: GALN-SA6A-727-U-T4FT

Iso-Footcandle Lines of Horizontal Illumination

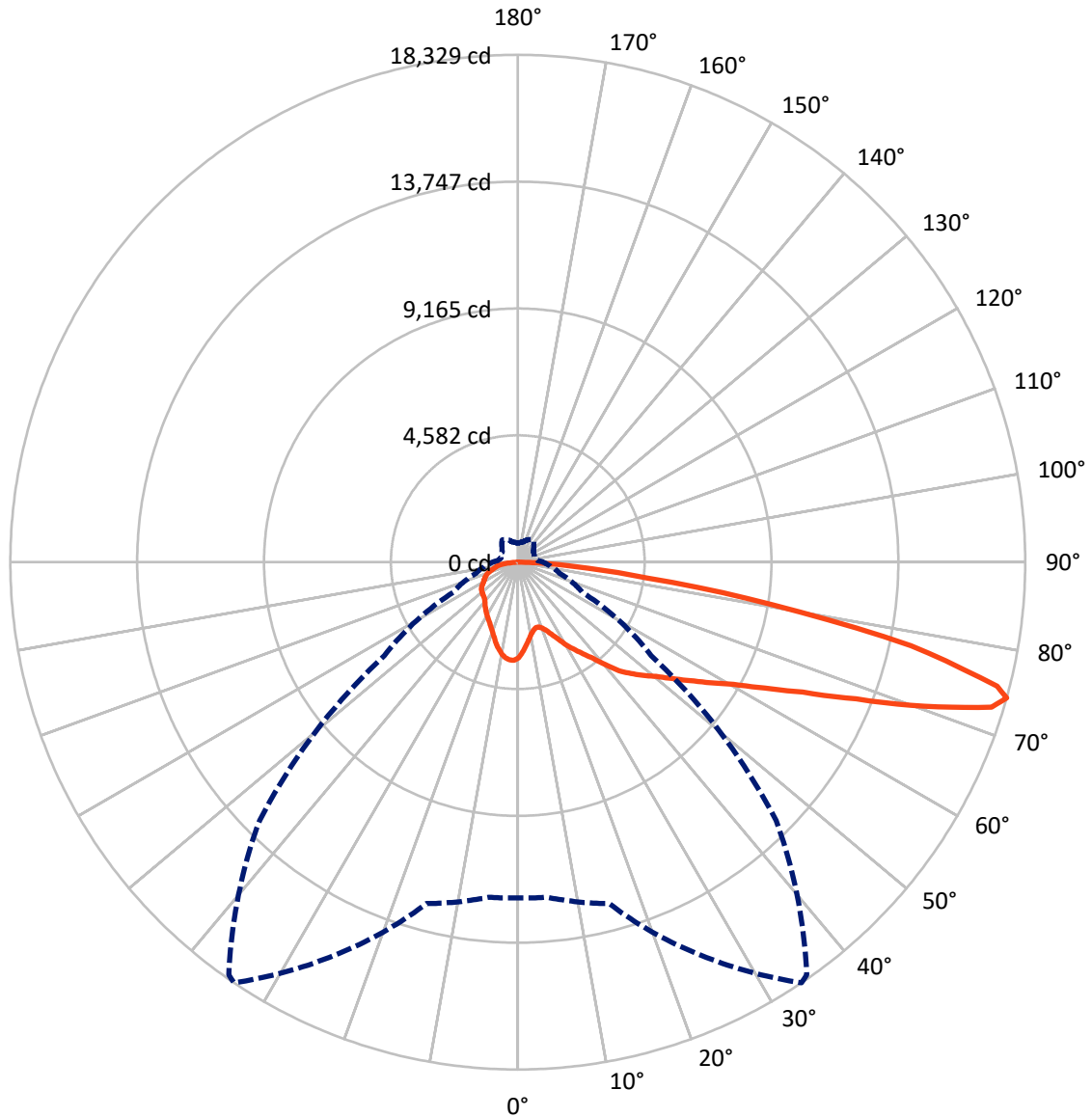
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.5 fc
 Type IV - Short - N/A

REPORT NUMBER: P454856
CATALOG NUMBER: GALN-SA6A-727-U-T4FT

Luminous Intensity Polar Plot



— Vertical Plane Through 34-Deg Lateral - - - Horizontal Cone Through 74-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4815.6	0.0	4815.6
	% Fixture	21.3	0.0	21.3
Street Side	Lumens	17813.4	0.0	17813.4
	% Fixture	78.7	0.0	78.7
Total	Lumens	22629.0	0.0	22629.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	314.2	1.4
10°-20°	860.2	3.8
20°-30°	1418.2	6.3
30°-40°	2124.3	9.4
40°-50°	3088.1	13.6
50°-60°	4313.3	19.1
60°-70°	5400.1	23.9
70°-80°	4465.4	19.7
80°-90°	645.2	2.9
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°	22629.0	100.0
0°-180°	22629.0	100.0

Coefficient of Utilization



REPORT NUMBER: P454856

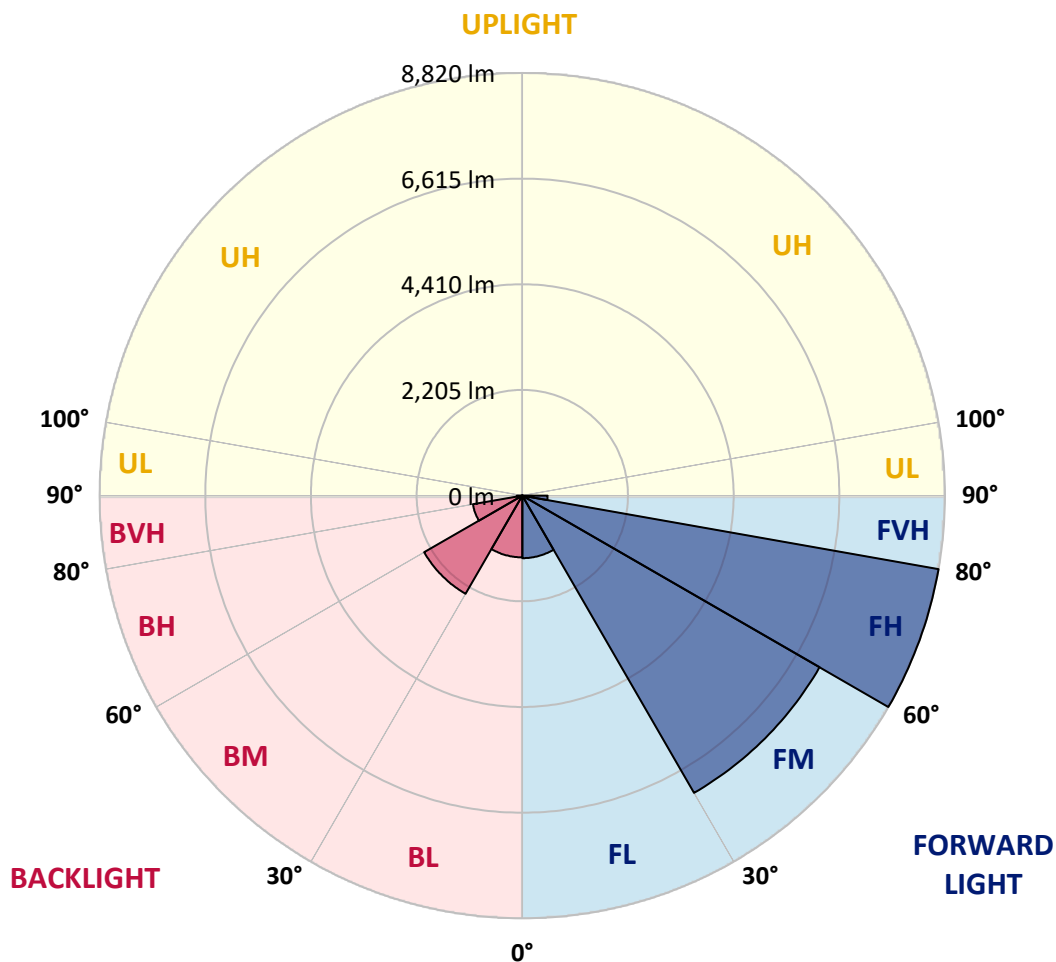
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1304.5	5.8			
FM (30°-60°)	7160.8	31.6			
FH (60°-80°)	8819.6	39.0			G4/12000
FVH (80°-90°)	528.6	2.3			G4/750
BL (0°-30°)	1288.1	5.7	B3/2500		
BM (30°-60°)	2365.0	10.5	B2/2500		
BH (60°-80°)	1045.9	4.6	B3/2500		G3/2500
BVH (80°-90°)	116.6	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 IV Short





REPORT NUMBER: P454856

CATALOG NUMBER: GALN-SA6A-727-U-T4FT

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	3455.0	3455.0	3455.0	3455.0	3455.0	3455.0	3455.0	3455.0	3455.0	3455.0	3455.0
2.5°	3193.0	3209.3	3218.1	3249.4	3256.9	3267.0	3293.3	3328.4	3373.5	3413.6	3448.7
5°	2927.2	2952.3	2967.3	2994.9	3048.8	3053.8	3124.0	3204.3	3295.8	3381.0	3451.2
7.5°	2675.2	2702.8	2715.4	2765.5	2837.0	2848.2	2951.0	3077.7	3230.6	3359.7	3467.5
10°	2485.9	2499.7	2527.3	2564.9	2650.2	2657.7	2791.8	2961.1	3159.1	3349.7	3495.1
12.5°	2383.1	2390.7	2396.9	2437.1	2521.0	2532.3	2672.7	2864.5	3102.7	3357.2	3540.2
15°	2398.2	2400.7	2373.1	2380.6	2448.3	2464.6	2603.8	2800.6	3067.6	3376.0	3607.9
17.5°	2524.8	2516.0	2448.3	2413.2	2460.9	2468.4	2590.0	2775.5	3051.3	3411.1	3678.1
20°	2724.1	2711.6	2595.0	2517.3	2544.9	2551.1	2635.1	2794.3	3067.6	3468.8	3787.2
22.5°	2972.4	2967.3	2790.6	2696.6	2695.3	2695.3	2739.2	2862.0	3116.5	3547.8	3901.3
25°	3319.6	3293.3	3062.6	2941.0	2907.2	2904.7	2899.6	2973.6	3179.2	3631.8	4036.7
27.5°	3675.6	3630.5	3424.9	3238.1	3165.4	3156.6	3124.0	3131.6	3259.4	3727.0	4190.9
30°	3995.3	3966.5	3773.4	3566.6	3480.1	3460.0	3369.8	3328.4	3393.6	3898.8	4436.6
32.5°	4239.8	4222.2	4071.8	3883.7	3755.9	3752.1	3620.5	3586.6	3602.9	4106.9	4717.4
35°	4437.8	4444.1	4367.6	4204.7	4058.0	4036.7	3948.9	3906.3	3858.7	4407.8	5070.9
37.5°	4708.6	4722.4	4717.4	4577.0	4397.7	4402.7	4382.7	4312.5	4185.9	4743.7	5463.3
40°	5007.0	5017.0	5015.8	4961.9	4867.8	4872.9	4865.3	4785.1	4595.8	5171.2	5899.6
42.5°	5419.4	5371.8	5247.7	5301.6	5356.8	5380.6	5432.0	5355.5	5096.0	5627.5	6309.5
45°	5880.8	5790.5	5509.7	5534.8	5739.1	5784.2	6067.6	5962.3	5638.8	6151.6	6792.2
47.5°	6171.6	6082.6	5845.7	5840.7	6111.4	6155.3	6656.8	6617.9	6132.8	6716.9	7381.4
50°	6431.1	6418.6	6151.6	6215.5	6480.0	6545.2	7298.6	7262.3	6625.4	7383.9	8023.2
52.5°	6816.0	6714.4	6501.3	6632.9	6982.7	7068.0	7935.5	7828.9	7078.0	7973.1	8646.3
55°	6989.0	6965.2	6952.6	7066.7	7546.8	7608.3	8554.8	8310.3	7464.1	8472.0	9120.1
57.5°	7451.6	7407.7	7531.8	7609.5	8211.3	8305.3	9201.6	8813.0	7802.6	8868.2	9350.8
60°	8050.8	8027.0	8141.1	8281.5	8953.4	9096.3	9938.8	9241.8	8074.6	9067.5	9224.2
62.5°	8945.9	8943.4	8922.1	9222.9	10005.2	10136.8	10785.0	9659.2	8117.2	8918.3	8569.8
65°	10229.6	10184.5	9998.9	10327.4	11314.0	11468.2	11666.3	9892.4	7860.3	8152.3	7215.9
67.5°	11572.2	11569.7	11419.3	11845.5	13193.2	13352.4	12768.2	9841.0	7146.9	6604.1	5124.8
70°	12685.5	12631.6	12823.4	13959.2	15593.9	15778.2	13732.2	9235.5	5692.7	4361.4	3045.1
72.5°	12952.5	12955.0	13353.7	15588.9	17899.3	17928.1	14079.5	7485.4	3809.8	2405.7	1523.2
74°	12130.1	12151.4	12769.5	15670.4	18329.3	18198.9	13191.9	5883.3	2576.2	1570.8	1098.2
75°	11072.0	10937.9	11831.7	15127.5	17883.0	17742.6	12152.7	4721.2	1965.7	1254.9	961.5
77.5°	5919.6	6056.3	7435.3	11288.9	14528.3	14366.6	8240.1	2264.1	1061.8	873.8	692.0
80°	2107.3	2324.2	3267.0	5907.1	9314.5	9364.6	3932.6	1038.0	747.2	644.4	488.9
82.5°	860.0	883.8	1402.8	2621.3	4729.9	4775.1	1605.9	616.8	534.0	443.8	292.1
85°	336.0	346.0	620.5	1178.4	2018.3	2150.0	555.4	325.9	328.5	254.5	149.2
87.5°	112.8	127.9	254.5	392.4	685.7	671.9	161.7	96.5	117.8	110.3	46.4
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: P454856
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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3455.0	3455.0	3455.0	3455.0	3455.0	3455.0	3455.0	3455.0	3455.0	3455.0	3455.0
2.5°	3466.3	3490.1	3506.4	3524.0	3540.2	3545.3	3541.5	3552.8	3554.0	3555.3	3556.5
5°	3486.3	3518.9	3550.3	3567.8	3575.3	3569.1	3547.8	3536.5	3526.5	3518.9	3521.4
7.5°	3513.9	3560.3	3589.1	3596.7	3576.6	3547.8	3495.1	3453.7	3427.4	3409.9	3408.6
10°	3556.5	3601.7	3625.5	3604.2	3549.0	3478.8	3396.1	3318.4	3259.4	3241.9	3240.6
12.5°	3610.5	3661.8	3660.6	3597.9	3501.4	3376.0	3241.9	3151.6	3071.4	3031.3	3047.6
15°	3680.7	3719.5	3683.2	3570.3	3417.4	3245.6	3080.2	2957.3	2867.0	2824.4	2826.9
17.5°	3762.1	3796.0	3699.5	3521.4	3299.6	3078.9	2887.1	2770.5	2699.1	2667.7	2665.2
20°	3863.7	3873.7	3699.5	3436.2	3147.9	2884.6	2701.6	2620.1	2580.0	2563.7	2568.7
22.5°	3972.7	3952.7	3679.4	3315.8	2948.5	2681.5	2558.7	2522.3	2502.2	2499.7	2502.2
25°	4095.6	4039.2	3638.0	3152.9	2740.4	2506.0	2434.5	2440.8	2444.6	2444.6	2453.4
27.5°	4246.0	4133.2	3569.1	2947.3	2497.2	2343.0	2323.0	2366.9	2386.9	2390.7	2396.9
30°	4444.1	4236.0	3455.0	2690.3	2290.4	2196.4	2231.5	2290.4	2312.9	2326.7	2324.2
32.5°	4679.8	4348.8	3300.8	2433.3	2123.6	2093.6	2136.2	2196.4	2221.4	2229.0	2218.9
35°	4956.8	4476.7	3097.7	2192.6	1978.2	1995.8	2045.9	2064.7	2087.3	2087.3	2092.3
37.5°	5255.2	4579.5	2849.5	1972.0	1865.4	1929.3	1965.7	1948.1	1938.1	1925.6	1931.8
40°	5558.6	4656.0	2527.3	1753.8	1752.6	1860.4	1870.4	1820.3	1780.2	1767.6	1761.3
42.5°	5823.1	4703.6	2236.5	1584.6	1646.0	1792.7	1800.2	1720.0	1656.0	1618.4	1605.9
45°	6135.3	4758.8	1951.9	1444.2	1547.0	1738.8	1757.6	1649.8	1555.8	1476.8	1456.7
47.5°	6562.7	4884.1	1727.5	1335.1	1475.5	1704.9	1731.3	1592.1	1468.0	1365.2	1348.9
50°	7045.4	5055.9	1553.2	1261.2	1420.4	1674.8	1707.4	1533.2	1386.5	1272.4	1259.9
52.5°	7487.9	5148.7	1402.8	1194.7	1366.5	1619.7	1676.1	1490.6	1306.3	1179.7	1168.4
55°	7729.9	4998.2	1254.9	1129.5	1292.5	1548.2	1632.2	1431.6	1228.6	1130.8	1114.5
57.5°	7762.5	4687.3	1120.7	1059.3	1214.8	1460.5	1550.7	1360.2	1178.4	1096.9	1083.1
60°	7510.5	4223.5	1016.7	1001.6	1135.8	1361.4	1459.2	1297.5	1127.0	1059.3	1045.5
62.5°	6883.7	3719.5	944.0	949.0	1055.6	1257.4	1391.5	1237.3	1078.1	1017.9	1005.4
65°	5805.6	3070.1	873.8	895.1	984.1	1175.9	1330.1	1187.2	1029.2	986.6	975.3
67.5°	4032.9	2216.4	816.1	838.7	916.4	1093.2	1258.6	1133.3	974.1	951.5	934.0
70°	2232.7	1363.9	748.4	774.7	846.2	1000.4	1178.4	1051.8	893.8	883.8	858.7
72.5°	1173.4	868.8	671.9	700.8	750.9	881.3	1055.6	962.8	814.9	772.2	739.6
74°	916.4	712.1	620.5	650.6	684.5	811.1	982.8	898.9	758.4	708.3	683.2
75°	798.6	634.3	576.7	615.5	645.6	763.5	926.4	853.7	727.1	679.5	656.9
77.5°	564.1	475.1	471.4	517.7	534.0	669.4	834.9	777.2	648.1	598.0	576.7
80°	396.1	356.0	373.6	402.4	425.0	591.7	774.7	671.9	531.5	472.6	465.1
82.5°	258.2	233.2	267.0	293.3	300.9	436.3	625.6	510.2	387.4	314.7	292.1
85°	119.1	116.6	152.9	149.2	147.9	213.1	371.1	298.4	223.1	166.7	156.7
87.5°	30.1	28.8	37.6	31.3	37.6	32.6	33.8	8.8	1.3	0.0	0.0
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)