

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: P455784

Luminaire Tested: **GALN-SA7A-727-U-T4FT**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P455784
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-SA7A-727-U-T4FT
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 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: 26580 lumens
Efficiency: N/A
Efficacy: 123.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

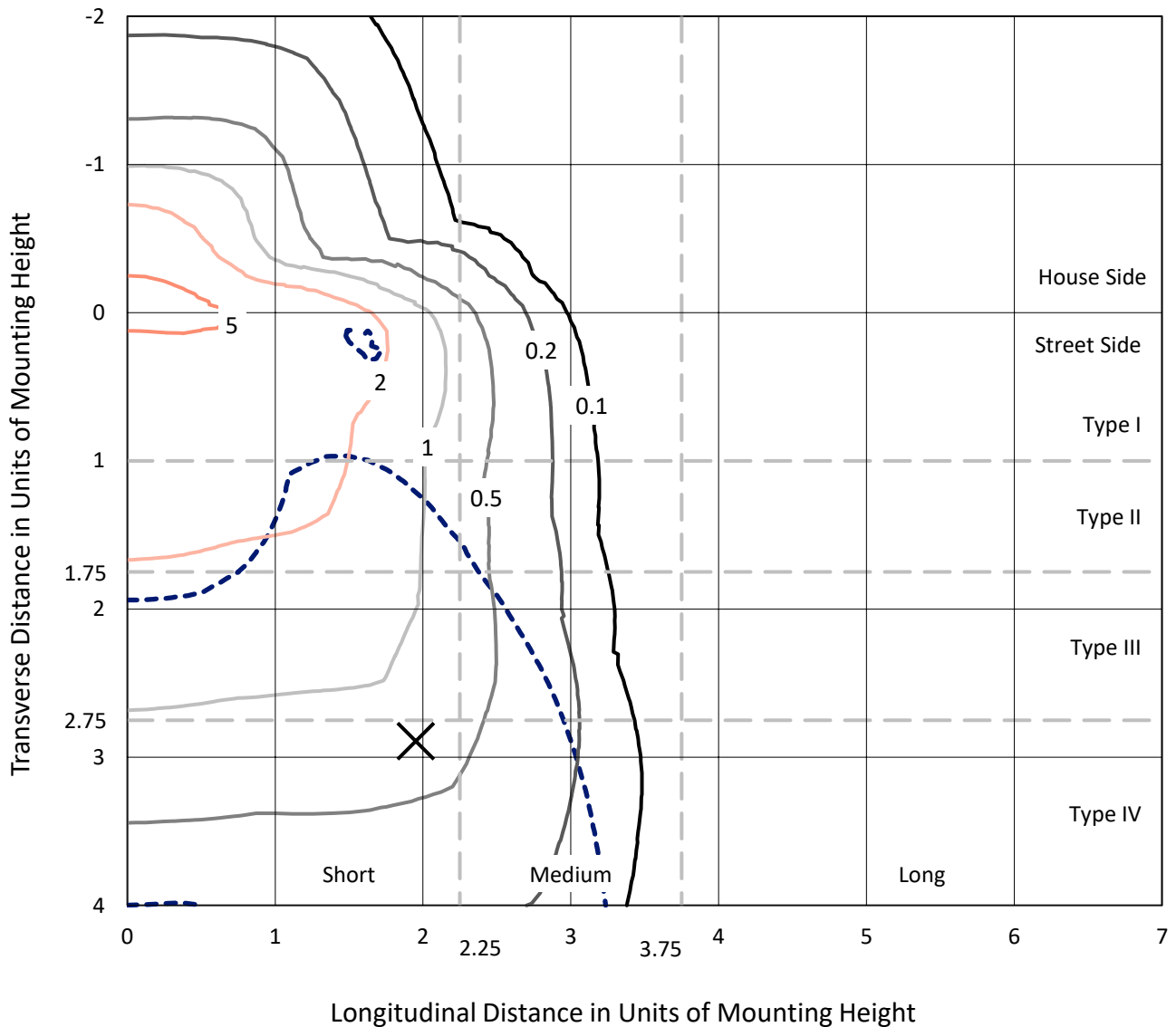
Input Watts (W): 215
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

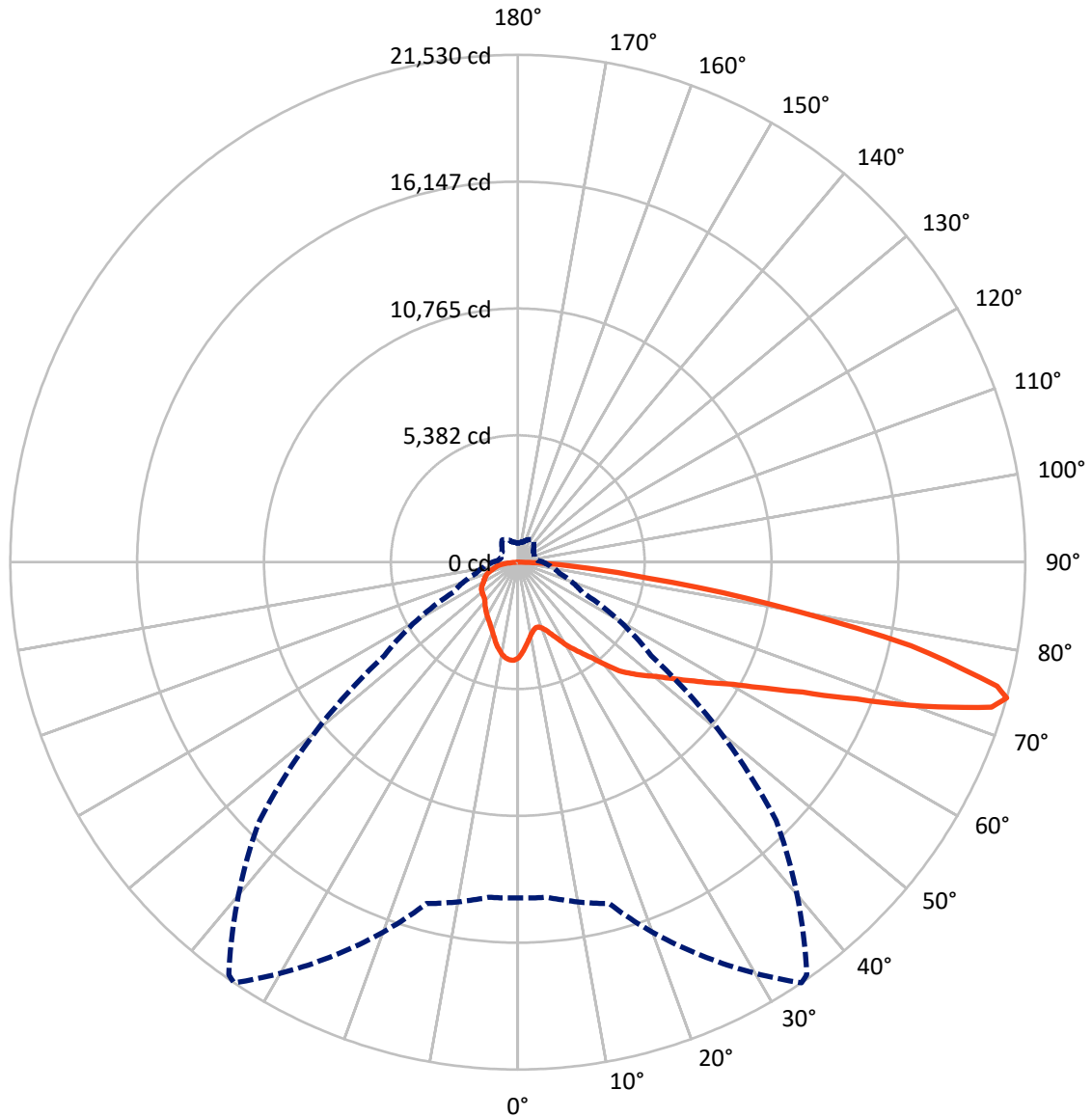
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.5 fc
 Type IV - Short - N/A

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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	5656.4	0.0	5656.4
	% Fixture	21.3	0.0	21.3
Street Side	Lumens	20923.6	0.0	20923.6
	% Fixture	78.7	0.0	78.7
Total	Lumens	26580.0	0.0	26580.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	369.1	1.4
10°-20°	1010.3	3.8
20°-30°	1665.8	6.3
30°-40°	2495.2	9.4
40°-50°	3627.3	13.6
50°-60°	5066.5	19.1
60°-70°	6342.9	23.9
70°-80°	5245.1	19.7
80°-90°	757.9	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°	26580.0	100.0
0°-180°	26580.0	100.0

Coefficient of Utilization



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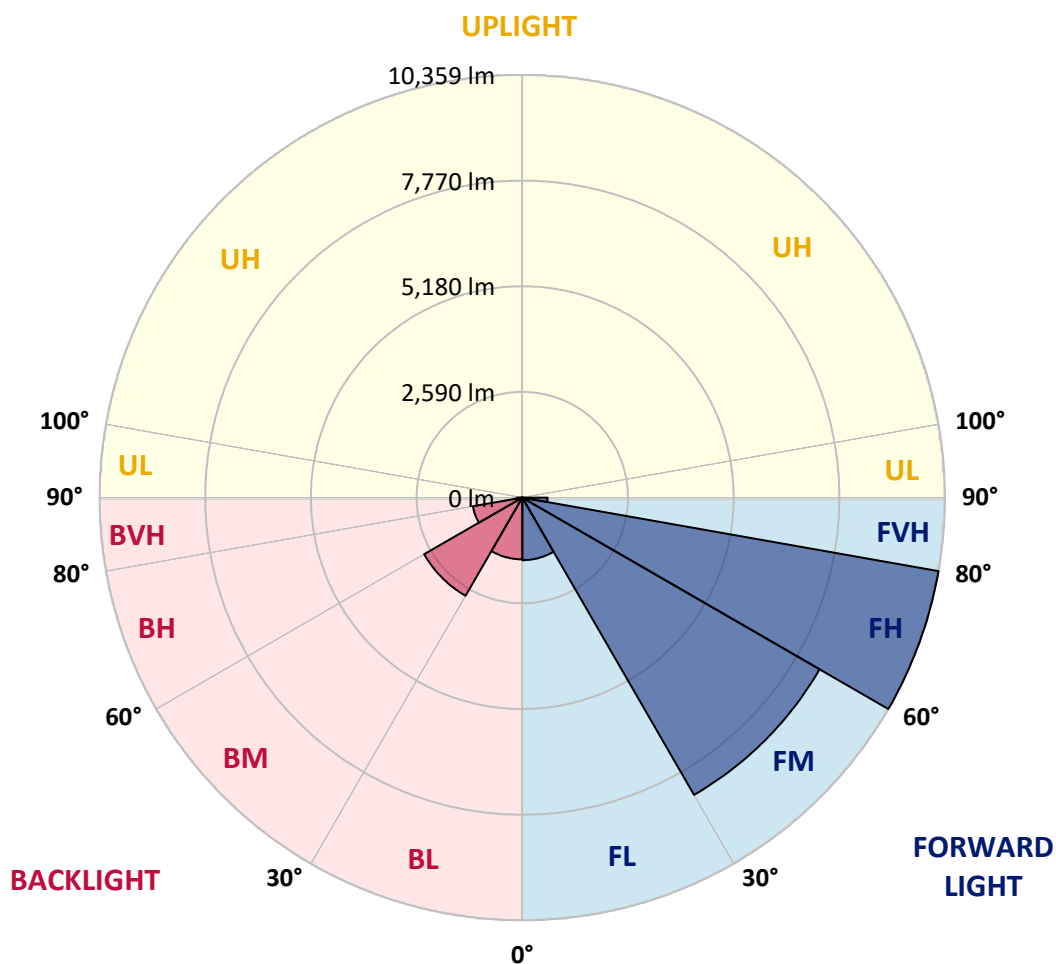
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1532.2	5.8			
FM	(30°-60°)	8411.0	31.6			
FH	(60°-80°)	10359.5	39.0			G4/12000
FVH	(80°-90°)	620.9	2.3			G4/750
BL	(0°-30°)	1513.0	5.7	B3/2500		
BM	(30°-60°)	2777.9	10.5	B3/5000		
BH	(60°-80°)	1228.5	4.6	B3/2500		G3/2500
BVH	(80°-90°)	137.0	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	4058.2	4058.2	4058.2	4058.2	4058.2	4058.2	4058.2	4058.2	4058.2	4058.2	4058.2
2.5°	3750.5	3769.6	3779.9	3816.7	3825.6	3837.4	3868.3	3909.5	3962.5	4009.6	4050.9
5°	3438.3	3467.8	3485.4	3517.8	3581.1	3587.0	3669.5	3763.7	3871.2	3971.4	4053.8
7.5°	3142.3	3174.7	3189.5	3248.4	3332.3	3345.5	3466.3	3615.0	3794.7	3946.3	4073.0
10°	2920.0	2936.2	2968.6	3012.8	3112.9	3121.7	3279.3	3478.1	3710.7	3934.5	4105.4
12.5°	2799.2	2808.1	2815.4	2862.6	2961.2	2974.5	3139.4	3364.7	3644.5	3943.4	4158.4
15°	2816.9	2819.9	2787.5	2796.3	2875.8	2895.0	3058.4	3289.6	3603.2	3965.5	4237.9
17.5°	2965.6	2955.3	2875.8	2834.6	2890.5	2899.4	3042.2	3260.1	3584.1	4006.7	4320.3
20°	3199.8	3185.0	3048.1	2956.8	2989.2	2996.6	3095.2	3282.2	3603.2	4074.4	4448.5
22.5°	3491.3	3485.4	3277.8	3167.4	3165.9	3165.9	3217.4	3361.7	3660.7	4167.2	4582.5
25°	3899.2	3868.3	3597.3	3454.5	3414.8	3411.8	3405.9	3492.8	3734.3	4265.9	4741.5
27.5°	4317.4	4264.4	4022.9	3803.5	3718.1	3707.8	3669.5	3678.3	3828.5	4377.8	4922.6
30°	4692.9	4659.0	4432.3	4189.3	4087.7	4064.1	3958.1	3909.5	3986.1	4579.5	5211.2
32.5°	4980.0	4959.4	4782.7	4561.8	4411.6	4407.2	4252.6	4212.9	4232.0	4823.9	5541.1
35°	5212.7	5220.1	5130.2	4938.8	4766.5	4741.5	4638.4	4588.3	4532.4	5177.3	5956.3
37.5°	5530.8	5546.9	5541.1	5376.1	5165.6	5171.5	5147.9	5065.4	4916.7	5572.0	6417.2
40°	5881.2	5893.0	5891.5	5828.2	5717.8	5723.7	5714.8	5620.6	5398.2	6074.1	6929.6
42.5°	6365.7	6309.7	6163.9	6227.2	6292.0	6320.0	6380.4	6290.6	5985.8	6610.1	7411.1
45°	6907.5	6801.5	6471.7	6501.1	6741.2	6794.2	7127.0	7003.3	6623.4	7225.6	7978.1
47.5°	7249.2	7144.6	6866.3	6860.4	7178.5	7230.0	7819.0	7773.4	7203.5	7889.7	8670.1
50°	7554.0	7539.3	7225.6	7300.7	7611.4	7688.0	8573.0	8530.3	7782.2	8673.1	9424.1
52.5°	8006.0	7886.8	7636.4	7791.1	8201.9	8302.0	9321.0	9195.8	8313.8	9365.2	10155.9
55°	8209.2	8181.3	8166.5	8300.5	8864.5	8936.7	10048.4	9761.3	8767.3	9951.2	10712.5
57.5°	8752.6	8701.1	8846.8	8938.1	9644.9	9755.4	10808.2	10351.8	9164.9	10416.5	10983.5
60°	9456.5	9428.5	9562.5	9727.4	10516.7	10684.5	11674.1	10855.4	9484.4	10650.7	10834.7
62.5°	10507.8	10504.9	10479.9	10833.3	11752.1	11906.7	12668.0	11345.7	9534.5	10475.4	10066.1
65°	12015.7	11962.7	11744.7	12130.5	13289.4	13470.5	13703.2	11619.6	9232.6	9575.7	8475.8
67.5°	13592.7	13589.8	13413.1	13913.8	15496.7	15683.7	14997.5	11559.2	8394.8	7757.2	6019.6
70°	14900.3	14837.0	15062.3	16396.4	18316.6	18533.0	16129.9	10848.0	6686.7	5122.9	3576.7
72.5°	15214.0	15216.9	15685.2	18310.7	21024.5	21058.4	16537.8	8792.4	4475.0	2825.7	1789.1
74°	14248.0	14273.0	14999.0	18406.4	21529.6	21376.4	15495.2	6910.5	3026.0	1845.1	1289.9
75°	13005.2	12847.7	13897.6	17768.8	21005.4	20840.4	14274.5	5545.5	2308.9	1474.0	1129.4
77.5°	6953.2	7113.7	8733.5	13260.0	17064.9	16875.0	9678.8	2659.4	1247.2	1026.3	812.8
80°	2475.3	2730.0	3837.4	6938.5	10940.8	10999.7	4619.3	1219.2	877.6	756.9	574.3
82.5°	1010.1	1038.1	1647.7	3079.0	5555.8	5608.8	1886.3	724.5	627.3	521.3	343.1
85°	394.6	406.4	728.9	1384.2	2370.7	2525.4	652.3	382.9	385.8	298.9	175.2
87.5°	132.5	150.2	298.9	460.9	805.5	789.3	190.0	113.4	138.4	129.6	54.5
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°	4058.2	4058.2	4058.2	4058.2	4058.2	4058.2	4058.2	4058.2	4058.2	4058.2	4058.2
2.5°	4071.5	4099.5	4118.6	4139.2	4158.4	4164.3	4159.8	4173.1	4174.6	4176.0	4177.5
5°	4095.1	4133.3	4170.2	4190.8	4199.6	4192.2	4167.2	4154.0	4142.2	4133.3	4136.3
7.5°	4127.4	4181.9	4215.8	4224.6	4201.1	4167.2	4105.4	4056.8	4025.8	4005.2	4003.8
10°	4177.5	4230.5	4258.5	4233.5	4168.7	4086.2	3989.0	3897.7	3828.5	3807.9	3806.4
12.5°	4240.8	4301.2	4299.7	4226.1	4112.7	3965.5	3807.9	3701.9	3607.7	3560.5	3579.7
15°	4323.3	4368.9	4326.2	4193.7	4014.1	3812.3	3618.0	3473.7	3367.6	3317.6	3320.5
17.5°	4419.0	4458.8	4345.4	4136.3	3875.6	3616.5	3391.2	3254.2	3170.3	3133.5	3130.6
20°	4538.3	4550.1	4345.4	4036.2	3697.5	3388.2	3173.3	3077.5	3030.4	3011.3	3017.2
22.5°	4666.4	4642.8	4321.8	3894.8	3463.3	3149.7	3005.4	2962.7	2939.1	2936.2	2939.1
25°	4810.7	4744.4	4273.2	3703.4	3218.9	2943.5	2859.6	2867.0	2871.4	2871.4	2881.7
27.5°	4987.4	4854.9	4192.2	3461.9	2933.2	2752.1	2728.6	2780.1	2803.7	2808.1	2815.4
30°	5220.1	4975.6	4058.2	3160.0	2690.3	2579.8	2621.1	2690.3	2716.8	2733.0	2730.0
32.5°	5496.9	5108.1	3877.1	2858.1	2494.4	2459.1	2509.2	2579.8	2609.3	2618.1	2606.3
35°	5822.3	5258.3	3638.6	2575.4	2323.6	2344.2	2403.1	2425.2	2451.7	2451.7	2457.6
37.5°	6172.8	5379.1	3347.0	2316.3	2191.1	2266.2	2308.9	2288.3	2276.5	2261.8	2269.1
40°	6529.1	5468.9	2968.6	2060.0	2058.6	2185.2	2197.0	2138.1	2091.0	2076.2	2068.9
42.5°	6839.8	5524.9	2627.0	1861.3	1933.4	2105.7	2114.5	2020.3	1945.2	1901.0	1886.3
45°	7206.5	5589.7	2292.7	1696.3	1817.1	2042.4	2064.5	1937.8	1827.4	1734.6	1711.1
47.5°	7708.6	5736.9	2029.1	1568.2	1733.1	2002.6	2033.5	1870.1	1724.3	1603.6	1584.4
50°	8275.5	5938.6	1824.4	1481.3	1668.4	1967.3	2005.6	1800.9	1628.6	1494.6	1479.9
52.5°	8795.3	6047.6	1647.7	1403.3	1605.0	1902.5	1968.7	1750.8	1534.4	1385.6	1372.4
55°	9079.5	5870.9	1474.0	1326.7	1518.2	1818.6	1917.2	1681.6	1443.1	1328.2	1309.1
57.5°	9117.8	5505.7	1316.4	1244.3	1426.9	1715.5	1821.5	1597.7	1384.2	1288.4	1272.2
60°	8821.8	4960.9	1194.2	1176.5	1334.1	1599.1	1714.0	1524.0	1323.8	1244.3	1228.1
62.5°	8085.6	4368.9	1108.8	1114.7	1239.9	1476.9	1634.5	1453.4	1266.4	1195.7	1181.0
65°	6819.2	3606.2	1026.3	1051.4	1155.9	1381.2	1562.3	1394.5	1208.9	1158.9	1145.6
67.5°	4737.1	2603.4	958.6	985.1	1076.4	1284.0	1478.4	1331.1	1144.1	1117.6	1097.0
70°	2622.5	1602.1	879.1	910.0	993.9	1175.1	1384.2	1235.4	1049.9	1038.1	1008.7
72.5°	1378.3	1020.5	789.3	823.1	882.0	1035.2	1239.9	1130.9	957.1	907.1	868.8
74°	1076.4	836.4	728.9	764.2	804.0	952.7	1154.4	1055.8	890.9	832.0	802.5
75°	938.0	745.1	677.4	723.0	758.3	896.8	1088.2	1002.8	854.1	798.1	771.6
77.5°	662.6	558.1	553.7	608.1	627.3	786.3	980.7	913.0	761.3	702.4	677.4
80°	465.3	418.2	438.8	472.7	499.2	695.0	910.0	789.3	624.3	555.1	546.3
82.5°	303.3	273.9	313.6	344.6	353.4	512.4	734.8	599.3	455.0	369.6	343.1
85°	139.9	136.9	179.6	175.2	173.8	250.3	435.9	350.5	262.1	195.8	184.1
87.5°	35.3	33.9	44.2	36.8	44.2	38.3	39.8	10.3	1.5	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)