

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: P453493

Luminaire Tested: **GALN-SA4C-730-U-T4FT**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P453493
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-SA4C-730-U-T4FT
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3000K, 1050mA 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: 25273 lumens
Efficiency: N/A
Efficacy: 118.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

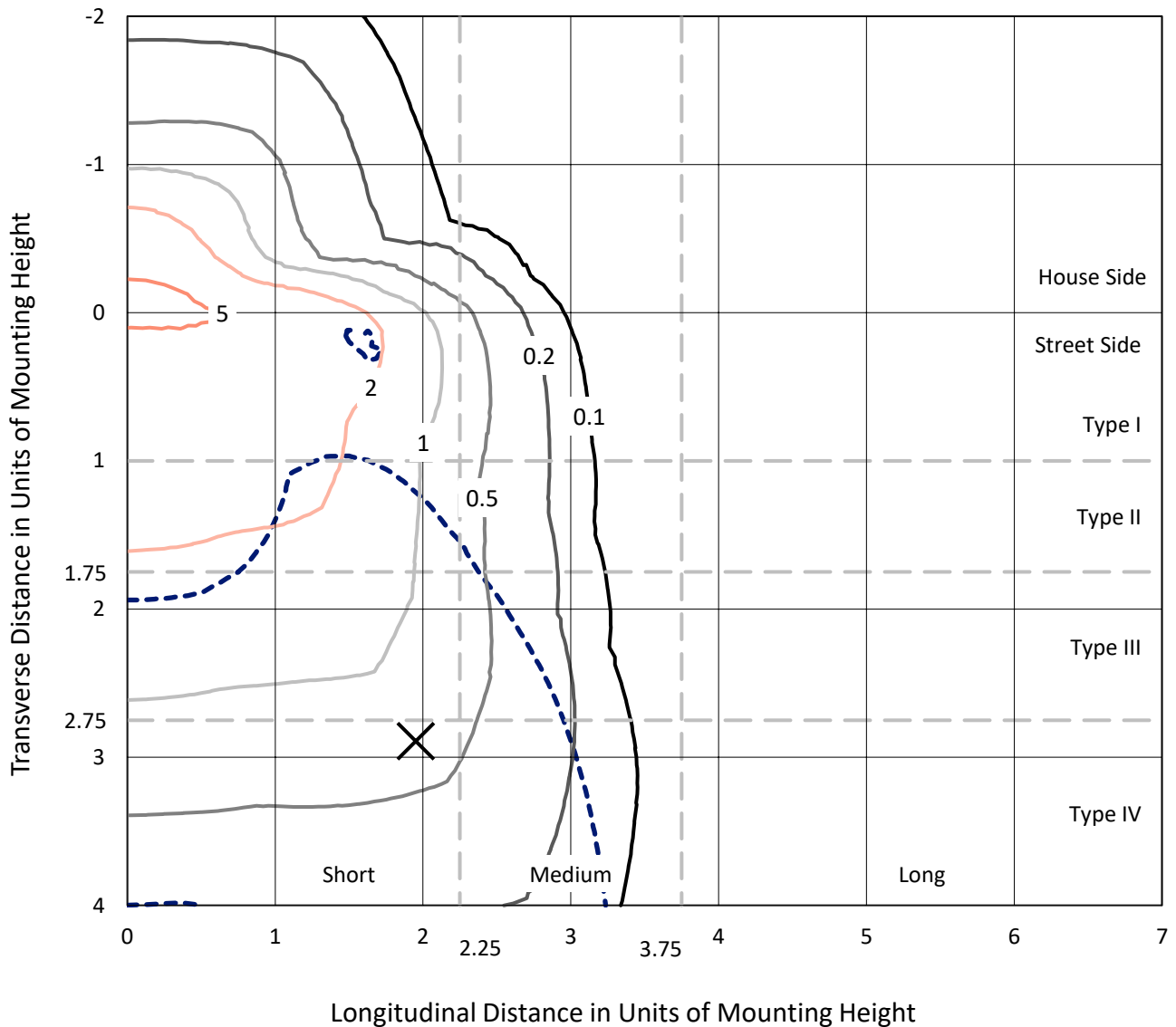
Input Watts (W): 213
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

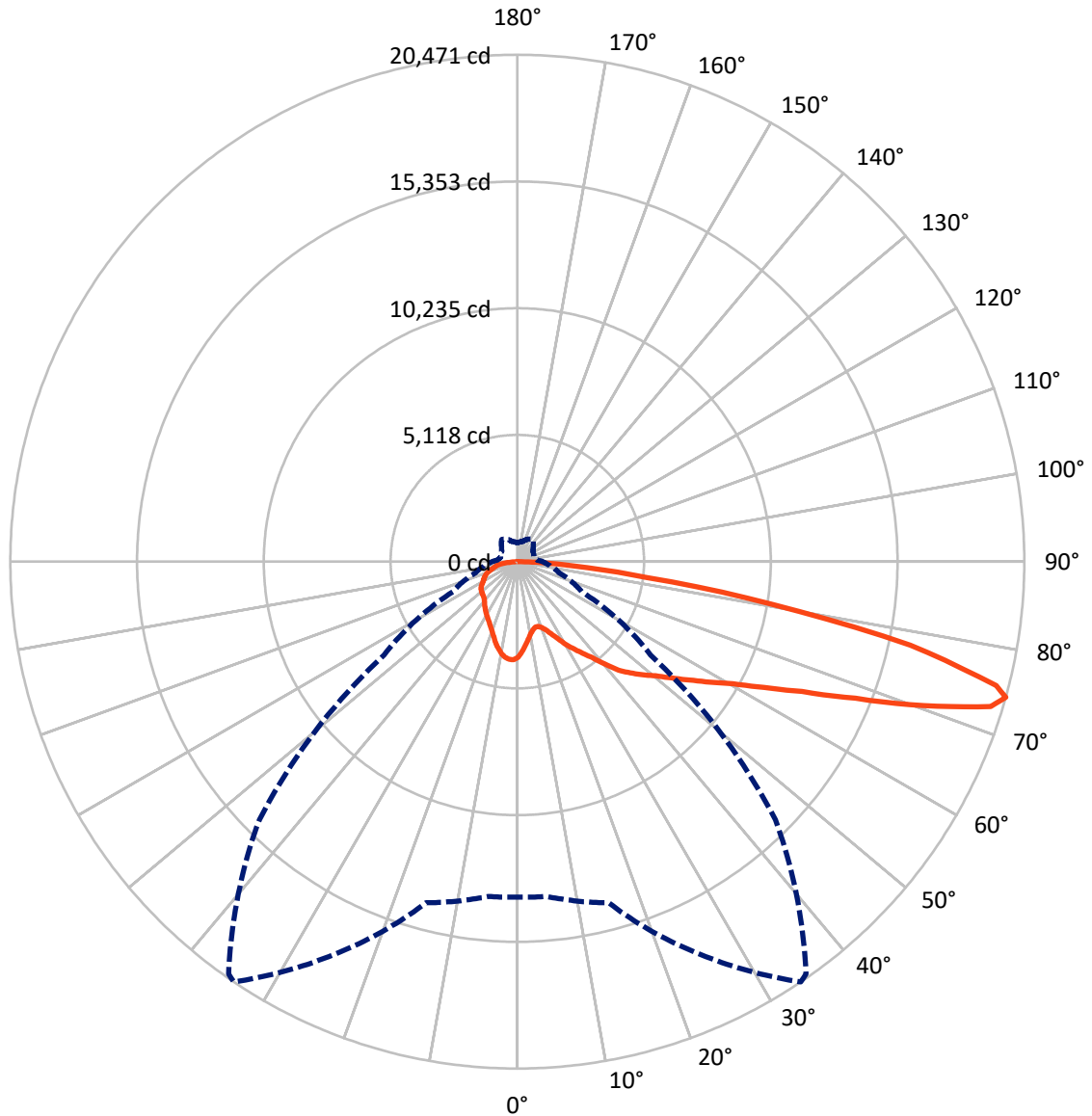
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.2 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	5378.3	0.0	5378.3
	% Fixture	21.3	0.0	21.3
Street Side	Lumens	19894.7	0.0	19894.7
	% Fixture	78.7	0.0	78.7
Total	Lumens	25273.0	0.0	25273.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	350.9	1.4
10°-20°	960.7	3.8
20°-30°	1583.9	6.3
30°-40°	2372.5	9.4
40°-50°	3448.9	13.6
50°-60°	4817.3	19.1
60°-70°	6031.0	23.9
70°-80°	4987.2	19.7
80°-90°	720.6	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°	25273.0	100.0
0°-180°	25273.0	100.0

Coefficient of Utilization



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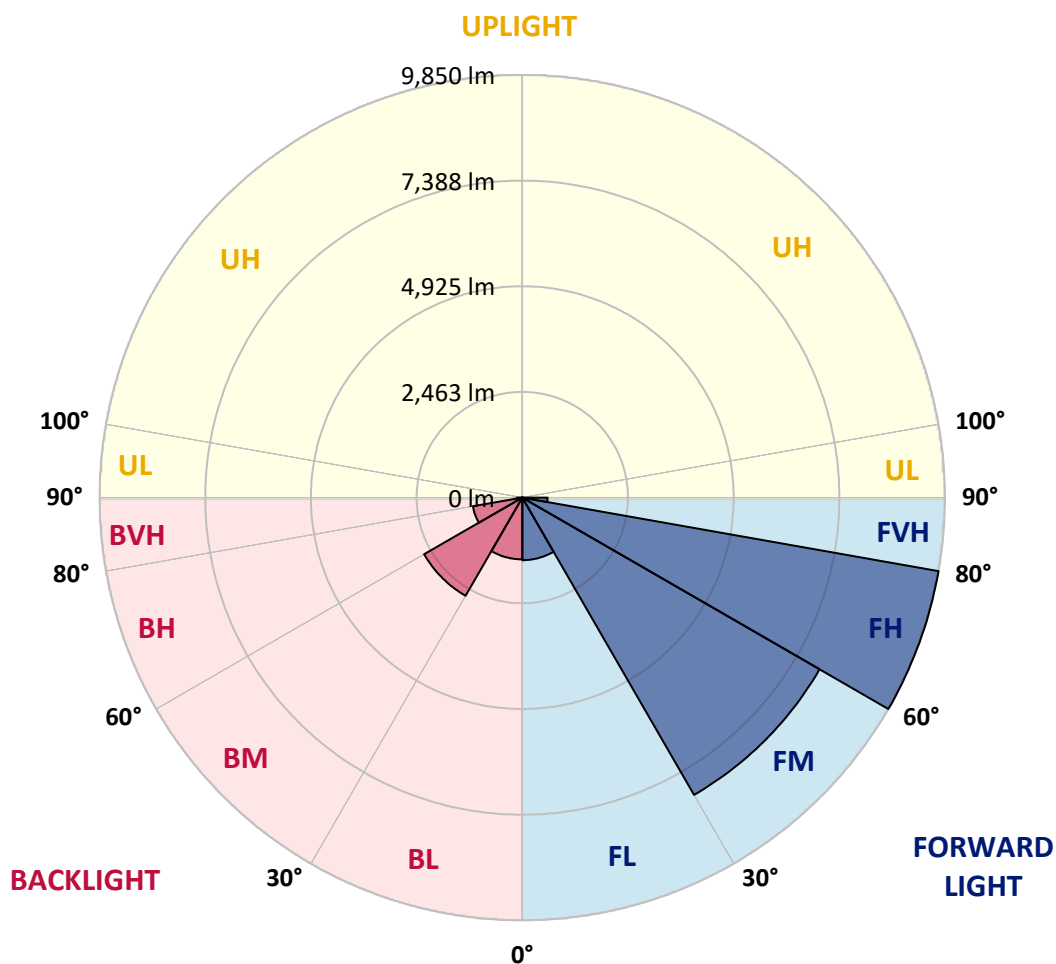
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1456.9	5.8			
FM (30°-60°)	7997.4	31.6			
FH (60°-80°)	9850.1	39.0			G4/12000
FVH (80°-90°)	590.3	2.3			G4/750
BL (0°-30°)	1438.6	5.7	B3/2500		
BM (30°-60°)	2641.3	10.5	B3/5000		
BH (60°-80°)	1168.1	4.6	B3/2500		G3/2500
BVH (80°-90°)	130.3	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°	3858.7	3858.7	3858.7	3858.7	3858.7	3858.7	3858.7	3858.7	3858.7	3858.7	3858.7
2.5°	3566.1	3584.3	3594.1	3629.1	3637.5	3648.7	3678.1	3717.3	3767.7	3812.5	3851.7
5°	3269.2	3297.2	3314.0	3344.8	3405.1	3410.7	3489.1	3578.7	3680.9	3776.1	3854.5
7.5°	2987.8	3018.6	3032.6	3088.6	3168.4	3181.0	3295.8	3437.3	3608.1	3752.3	3872.7
10°	2776.4	2791.8	2822.6	2864.6	2959.8	2968.2	3118.0	3307.0	3528.3	3741.1	3903.5
12.5°	2661.6	2670.0	2677.0	2721.8	2815.6	2828.2	2985.0	3199.2	3465.3	3749.5	3953.9
15°	2678.4	2681.2	2650.4	2658.8	2734.4	2752.6	2908.0	3127.8	3426.1	3770.5	4029.5
17.5°	2819.8	2810.0	2734.4	2695.2	2748.4	2756.8	2892.6	3099.8	3407.9	3809.7	4107.9
20°	3042.4	3028.4	2898.2	2811.4	2842.2	2849.2	2943.0	3120.8	3426.1	3874.1	4229.7
22.5°	3319.6	3314.0	3116.6	3011.6	3010.2	3010.2	3059.2	3196.4	3480.7	3962.3	4357.1
25°	3707.5	3678.1	3420.5	3284.6	3246.8	3244.0	3238.4	3321.0	3550.7	4056.1	4508.3
27.5°	4105.1	4054.7	3825.1	3616.5	3535.3	3525.5	3489.1	3497.5	3640.3	4162.5	4680.5
30°	4462.1	4429.9	4214.3	3983.3	3886.7	3864.3	3763.5	3717.3	3790.1	4354.3	4955.0
32.5°	4735.2	4715.6	4547.5	4337.5	4194.7	4190.5	4043.5	4005.7	4023.9	4586.7	5268.6
35°	4956.4	4963.4	4878.0	4695.9	4532.1	4508.3	4410.3	4362.7	4309.5	4922.8	5663.4
37.5°	5258.8	5274.2	5268.6	5111.8	4911.6	4917.2	4894.8	4816.4	4674.9	5298.0	6101.7
40°	5592.0	5603.2	5601.8	5541.6	5436.6	5442.2	5433.8	5344.2	5132.8	5775.4	6588.9
42.5°	6052.7	5999.4	5860.8	5921.0	5982.6	6009.2	6066.7	5981.2	5691.4	6285.1	7046.7
45°	6567.9	6467.1	6153.5	6181.5	6409.7	6460.1	6776.5	6658.9	6297.7	6870.3	7585.8
47.5°	6892.7	6793.3	6528.7	6523.1	6825.5	6874.5	7434.6	7391.2	6849.3	7501.8	8243.8
50°	7182.5	7168.5	6870.3	6941.7	7237.1	7309.9	8151.4	8110.8	7399.6	8246.6	8960.7
52.5°	7612.4	7499.0	7260.9	7408.0	7798.6	7893.8	8862.7	8743.7	7905.0	8904.7	9656.5
55°	7805.6	7779.0	7765.0	7892.4	8428.6	8497.2	9554.3	9281.3	8336.2	9461.9	10185.8
57.5°	8322.2	8273.2	8411.8	8498.6	9170.7	9275.7	10276.8	9842.7	8714.2	9904.3	10443.4
60°	8991.5	8964.9	9092.3	9249.1	9999.5	10159.2	11100.0	10321.6	9018.1	10127.0	10302.0
62.5°	9991.1	9988.3	9964.5	10300.6	11174.2	11321.2	12045.1	10787.8	9065.7	9960.3	9571.1
65°	11424.9	11374.4	11167.2	11534.1	12635.9	12808.2	13029.4	11048.2	8778.7	9104.9	8059.0
67.5°	12924.4	12921.6	12753.5	13229.6	14734.7	14912.5	14260.1	10990.8	7982.0	7375.7	5723.6
70°	14167.7	14107.5	14321.7	15590.2	17415.9	17621.7	15336.7	10314.6	6357.9	4871.0	3400.9
72.5°	14465.9	14468.7	14913.9	17410.3	19990.7	20022.9	15724.6	8360.0	4254.9	2686.8	1701.1
74°	13547.4	13571.2	14261.5	17501.3	20470.9	20325.3	14733.3	6570.7	2877.2	1754.3	1226.5
75°	12365.7	12215.9	13214.2	16895.1	19972.5	19815.7	13572.6	5272.8	2195.4	1401.5	1073.9
77.5°	6611.3	6763.9	8304.0	12607.9	16225.8	16045.2	9202.9	2528.6	1185.9	975.9	772.9
80°	2353.6	2595.8	3648.7	6597.3	10402.8	10458.8	4392.1	1159.3	834.5	719.7	546.0
82.5°	960.5	987.1	1566.7	2927.6	5282.6	5333.0	1793.5	688.9	596.4	495.6	326.2
85°	375.2	386.4	693.1	1316.1	2254.2	2401.2	620.2	364.0	366.8	284.2	166.6
87.5°	126.0	142.8	284.2	438.2	765.9	750.5	180.6	107.8	131.6	123.2	51.8
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°	3858.7	3858.7	3858.7	3858.7	3858.7	3858.7	3858.7	3858.7	3858.7	3858.7	3858.7
2.5°	3871.3	3897.9	3916.1	3935.7	3953.9	3959.5	3955.3	3967.9	3969.3	3970.7	3972.1
5°	3893.7	3930.1	3965.1	3984.7	3993.1	3986.1	3962.3	3949.7	3938.5	3930.1	3932.9
7.5°	3924.5	3976.3	4008.5	4016.9	3994.5	3962.3	3903.5	3857.3	3827.9	3808.3	3806.9
10°	3972.1	4022.5	4049.1	4025.3	3963.7	3885.3	3792.9	3706.1	3640.3	3620.7	3619.3
12.5°	4032.3	4089.7	4088.3	4018.3	3910.5	3770.5	3620.7	3519.9	3430.3	3385.5	3403.7
15°	4110.7	4154.1	4113.5	3987.5	3816.7	3624.9	3440.1	3302.8	3202.0	3154.4	3157.2
17.5°	4201.7	4239.5	4131.7	3932.9	3685.1	3438.7	3224.4	3094.2	3014.4	2979.4	2976.6
20°	4315.1	4326.3	4131.7	3837.7	3515.7	3221.6	3017.2	2926.2	2881.4	2863.2	2868.8
22.5°	4436.9	4414.5	4109.3	3703.3	3293.0	2994.8	2857.6	2817.0	2794.6	2791.8	2794.6
25°	4574.1	4511.1	4063.1	3521.3	3060.6	2798.8	2719.0	2726.0	2730.2	2730.2	2740.0
27.5°	4742.2	4616.1	3986.1	3291.6	2789.0	2616.8	2594.4	2643.4	2665.8	2670.0	2677.0
30°	4963.4	4731.0	3858.7	3004.6	2558.0	2453.0	2492.2	2558.0	2583.2	2598.6	2595.8
32.5°	5226.6	4857.0	3686.5	2717.6	2371.8	2338.2	2385.8	2453.0	2481.0	2489.4	2478.2
35°	5536.0	4999.8	3459.7	2448.8	2209.4	2229.0	2285.0	2306.0	2331.2	2331.2	2336.8
37.5°	5869.2	5114.6	3182.4	2202.4	2083.4	2154.8	2195.4	2175.8	2164.6	2150.6	2157.6
40°	6208.1	5200.0	2822.6	1958.7	1957.3	2077.8	2089.0	2033.0	1988.1	1974.1	1967.1
42.5°	6503.5	5253.2	2497.8	1769.7	1838.3	2002.1	2010.5	1920.9	1849.5	1807.5	1793.5
45°	6852.1	5314.8	2180.0	1612.9	1727.7	1941.9	1962.9	1842.5	1737.5	1649.3	1626.9
47.5°	7329.5	5454.8	1929.3	1491.1	1647.9	1904.1	1933.5	1778.1	1639.5	1524.7	1506.5
50°	7868.6	5646.6	1734.7	1408.5	1586.3	1870.5	1906.9	1712.3	1548.5	1421.1	1407.1
52.5°	8362.8	5750.2	1566.7	1334.3	1526.1	1808.9	1871.9	1664.7	1458.9	1317.5	1304.9
55°	8633.0	5582.2	1401.5	1261.5	1443.5	1729.1	1822.9	1598.9	1372.1	1262.9	1244.7
57.5°	8669.4	5235.0	1251.7	1183.1	1356.7	1631.1	1731.9	1519.1	1316.1	1225.1	1209.7
60°	8388.0	4717.0	1135.5	1118.7	1268.5	1520.5	1629.7	1449.1	1258.7	1183.1	1167.7
62.5°	7688.0	4154.1	1054.3	1059.9	1178.9	1404.3	1554.1	1381.9	1204.1	1136.9	1122.9
65°	6483.9	3428.9	975.9	999.7	1099.1	1313.3	1485.5	1325.9	1149.5	1101.9	1089.3
67.5°	4504.1	2475.4	911.5	936.7	1023.5	1220.9	1405.7	1265.7	1087.9	1062.7	1043.1
70°	2493.6	1523.3	835.9	865.3	945.1	1117.3	1316.1	1174.7	998.3	987.1	959.1
72.5°	1310.5	970.3	750.5	782.7	838.7	984.3	1178.9	1075.3	910.1	862.5	826.1
74°	1023.5	795.3	693.1	726.7	764.5	905.9	1097.7	1003.9	847.1	791.1	763.1
75°	891.9	708.5	644.0	687.5	721.1	852.7	1034.7	953.5	812.1	758.9	733.7
77.5°	630.0	530.6	526.4	578.2	596.4	747.7	932.5	868.1	723.9	667.8	644.0
80°	442.4	397.6	417.2	449.4	474.6	660.8	865.3	750.5	593.6	527.8	519.4
82.5°	288.4	260.4	298.2	327.6	336.0	487.2	698.7	569.8	432.6	351.4	326.2
85°	133.0	130.2	170.8	166.6	165.2	238.0	414.4	333.2	249.2	186.2	175.0
87.5°	33.6	32.2	42.0	35.0	42.0	36.4	37.8	9.8	1.4	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)