

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: P383409

Luminaire Tested: **GLEON-SA7A-735-U-T4W**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383409
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-18)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA7A-735-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30491.4 lumens
Efficiency: N/A
Efficacy: 134.9 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

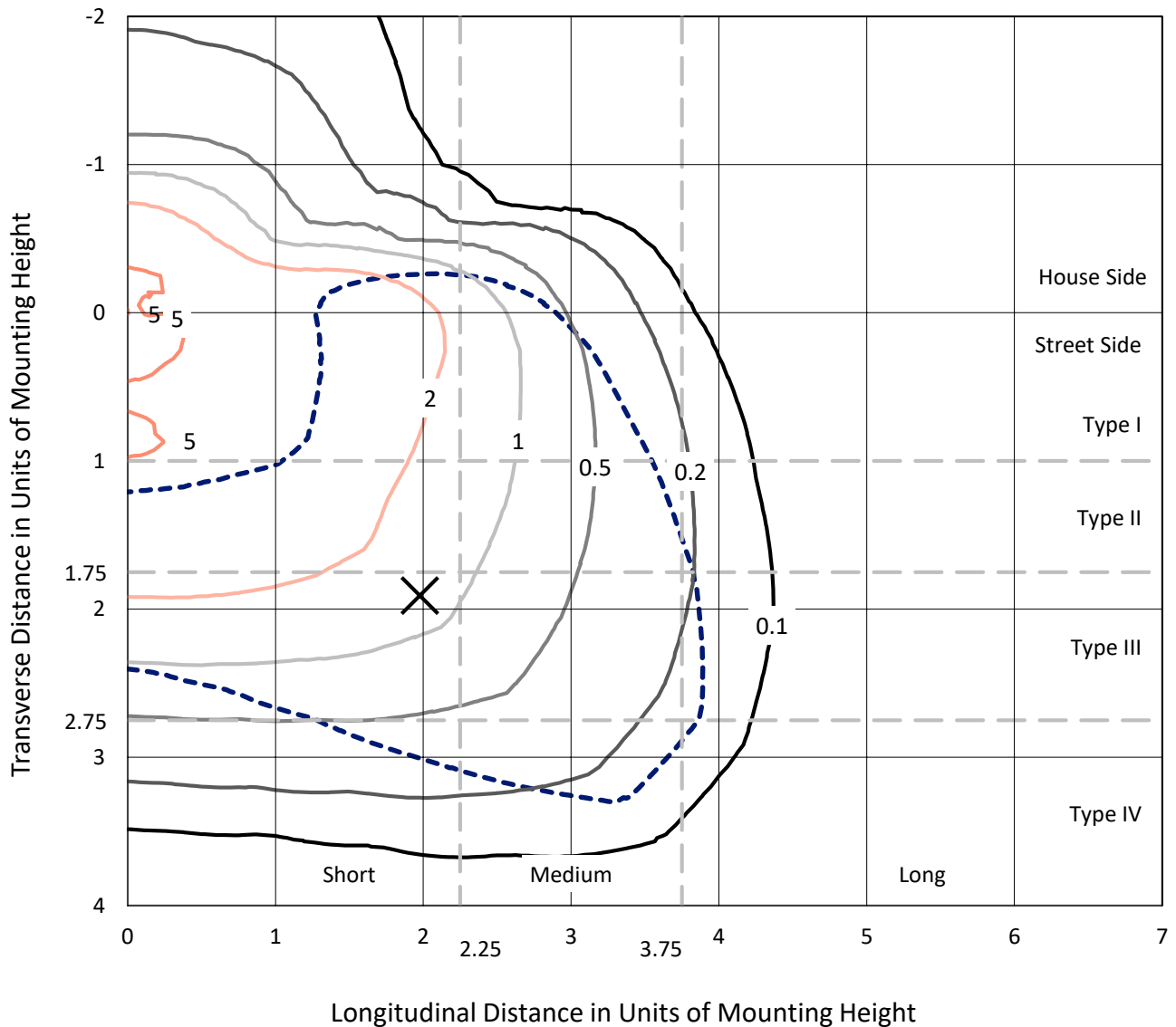
Input Watts (W): 226
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

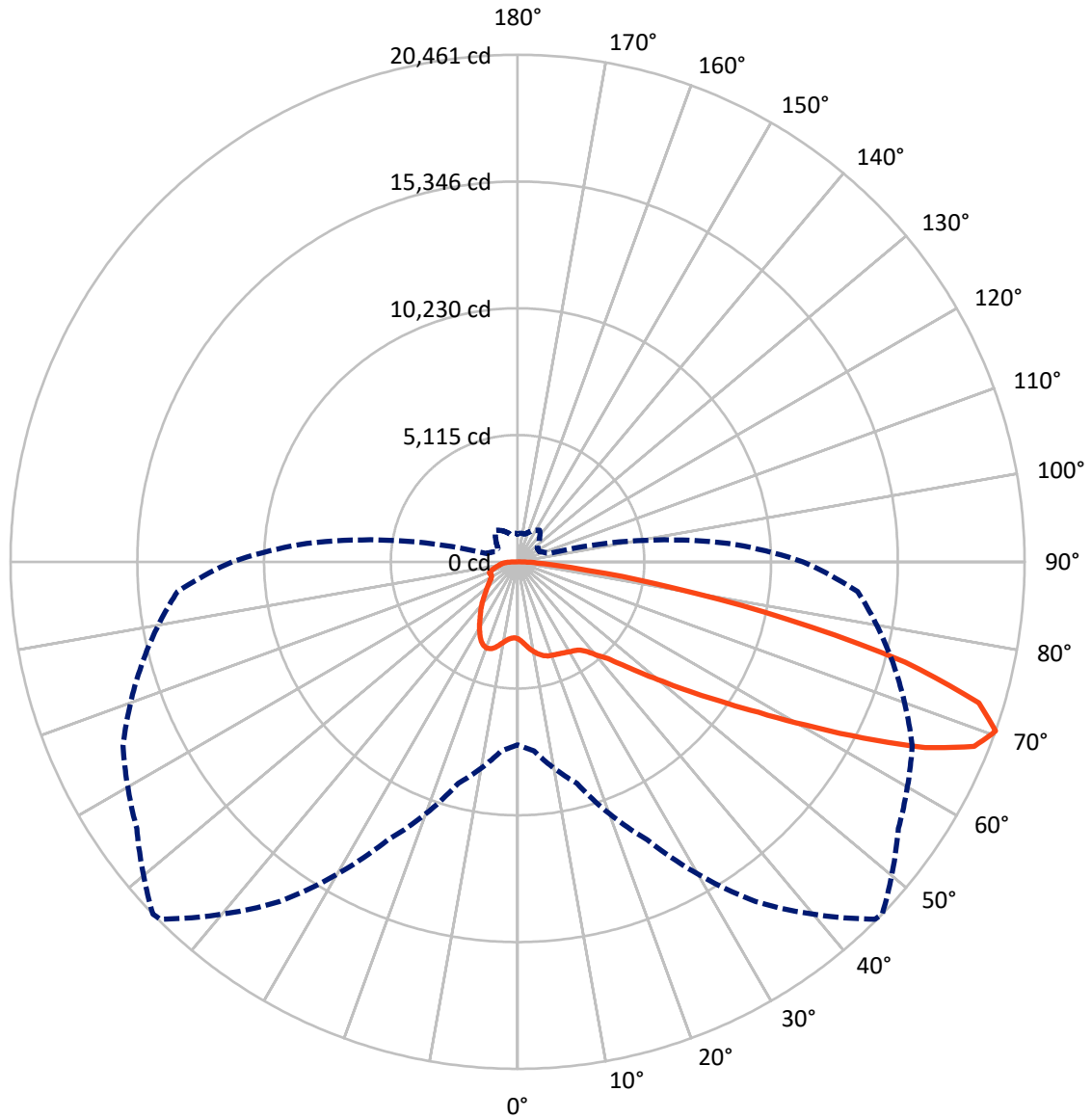
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.2 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 46-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6988.5	0.0	6988.5
	% Fixture	22.9	0.0	22.9
Street Side	Lumens	23502.9	0.0	23502.9
	% Fixture	77.1	0.0	77.1
Total	Lumens	30491.4	0.0	30491.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	316.7	1.0
10°-20°	1055.1	3.5
20°-30°	1759.2	5.8
30°-40°	2496.5	8.2
40°-50°	3672.2	12.0
50°-60°	6218.8	20.4
60°-70°	8827.5	29.0
70°-80°	5362.8	17.6
80°-90°	782.6	2.6
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°	30491.4	100.0
0°-180°	30491.4	100.0

Coefficient of Utilization

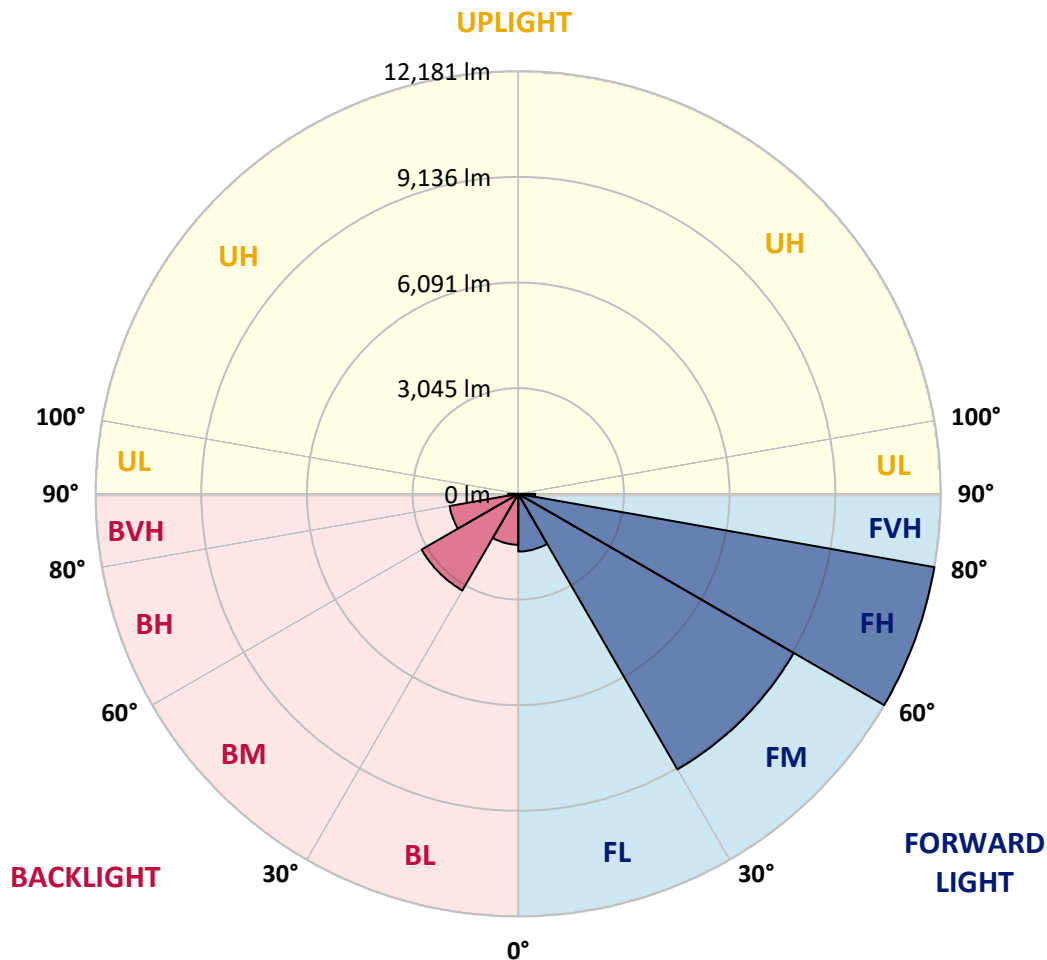


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1663.7	5.5			
FM (30°-60°)	9170.5	30.1			
FH (60°-80°)	12181.1	39.9			G5
FVH (80°-90°)	487.5	1.6			G3/500
BL (0°-30°)	1467.3	4.8	B3/2500		
BM (30°-60°)	3217.0	10.6	B3/5000		
BH (60°-80°)	2009.1	6.6	B3/2500		G3/2500
BVH (80°-90°)	295.1	1.0			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°	46°	55°	65°	75°	85°
0°	3106.5	3106.5	3106.5	3106.5	3106.5	3106.5	3106.5	3106.5	3106.5	3106.5	3106.5
2.5°	3262.0	3264.0	3268.2	3257.8	3228.6	3220.2	3217.1	3186.8	3167.0	3137.8	3112.8
5°	3522.8	3524.9	3518.6	3489.5	3424.7	3376.8	3372.6	3303.7	3241.1	3174.3	3124.2
7.5°	3795.2	3798.3	3778.5	3723.2	3632.4	3548.9	3543.7	3449.8	3354.9	3253.6	3178.4
10°	4036.2	4023.7	3991.4	3914.2	3806.7	3704.4	3700.2	3602.1	3492.6	3370.5	3270.3
12.5°	4196.9	4186.5	4144.7	4050.8	3932.9	3839.0	3830.6	3739.9	3633.4	3499.9	3379.8
15°	4285.6	4292.9	4236.6	4130.1	4015.3	3936.1	3928.7	3864.1	3769.1	3634.5	3496.8
17.5°	4297.1	4303.4	4249.1	4143.7	4049.8	3995.5	3992.4	3949.6	3880.7	3751.3	3607.3
20°	4230.3	4234.5	4189.6	4103.0	4041.4	4024.8	4023.7	4004.9	3953.8	3839.0	3699.2
22.5°	4133.3	4136.4	4104.0	4041.4	4020.6	4046.6	4054.0	4046.6	4010.1	3902.6	3771.2
25°	4109.2	4107.2	4073.8	4010.1	4027.9	4083.2	4092.6	4095.7	4070.7	3976.8	3863.0
27.5°	4225.1	4217.8	4154.1	4051.9	4063.3	4130.1	4142.7	4173.0	4157.3	4074.9	3967.4
30°	4560.0	4547.5	4417.1	4210.5	4154.1	4188.6	4204.3	4252.2	4255.4	4186.5	4106.2
32.5°	5125.7	5110.0	4876.3	4506.8	4307.6	4248.0	4262.7	4334.7	4373.2	4320.1	4233.4
35°	5840.4	5822.7	5515.9	5010.9	4564.2	4361.8	4372.2	4429.6	4506.8	4431.7	4316.9
37.5°	6585.5	6542.7	6247.4	5603.5	4972.2	4604.9	4604.9	4612.3	4648.8	4492.2	4415.0
40°	7326.3	7283.6	7016.4	6300.6	5500.2	4987.9	4963.9	4802.1	4773.0	4638.4	4612.3
42.5°	8015.0	8002.6	7844.9	7088.4	6120.1	5364.6	5331.2	5056.8	5063.1	4979.6	4980.6
45°	8747.6	8747.6	8619.2	7883.6	6842.2	5969.8	5936.5	5532.6	5595.2	5556.6	5649.5
47.5°	9345.6	9364.3	9346.6	8712.1	7682.2	6738.9	6678.4	6192.1	6367.4	6499.9	6770.2
50°	9956.0	9985.2	9988.3	9621.0	8697.5	7652.9	7584.1	7067.6	7458.9	7838.7	8369.9
52.5°	10841.9	10907.7	10645.7	10527.8	9941.4	8738.2	8670.4	8193.5	8846.7	9379.9	10295.1
55°	11663.2	11605.7	11418.9	11491.9	11272.8	9973.7	9922.6	9504.1	10393.2	11086.1	12274.6
57.5°	12107.6	12103.5	12291.3	12604.3	12708.7	11497.2	11454.4	11047.5	12136.9	12657.6	14133.1
60°	12629.4	12636.7	13102.1	13812.7	14242.6	13394.3	13375.5	13066.6	13830.5	14124.7	15590.8
62.5°	12702.4	12833.9	13635.3	14858.3	15678.5	15610.7	15652.4	14885.4	15345.6	15295.5	16679.2
65°	11862.4	12035.7	13486.1	15174.4	17106.0	18034.7	18073.3	16714.7	16540.4	16296.2	17068.4
67.5°	10140.6	10397.4	11973.0	14486.8	17576.6	19826.4	19880.6	18132.8	17531.7	16635.4	16131.3
70°	7379.6	7664.5	9250.5	12372.7	16737.6	20399.2	20460.8	18759.9	17569.3	15670.1	13771.0
72.5°	4457.8	4681.1	5988.6	9108.7	14126.8	19355.8	19465.3	17964.8	16040.6	13273.2	10168.9
75°	1957.6	2103.7	2895.7	5248.8	10113.5	16014.5	16151.2	15376.9	13033.2	9646.1	6010.5
77.5°	833.7	875.5	1187.5	2280.1	5717.3	10943.1	11131.0	11235.3	8842.5	5248.8	2539.9
80°	519.6	536.4	672.0	1032.0	2675.5	6146.2	6348.6	6610.5	4391.0	1929.4	886.9
82.5°	316.2	335.0	446.6	624.0	1393.0	2786.2	2883.1	3067.9	1704.0	833.7	459.2
85°	189.9	203.4	273.4	394.4	793.0	1095.7	1094.7	1210.5	802.4	536.4	242.1
87.5°	90.8	101.3	146.1	204.6	399.6	411.1	385.0	436.2	487.3	351.7	122.1
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°	3106.5	3106.5	3106.5	3106.5	3106.5	3106.5	3106.5	3106.5	3106.5	3106.5	3106.5
2.5°	3104.4	3100.2	3086.7	3076.2	3074.1	3067.9	3062.6	3065.8	3069.9	3071.0	3071.0
5°	3103.4	3091.9	3074.1	3066.8	3076.2	3088.7	3104.4	3125.2	3137.8	3147.1	3153.5
7.5°	3153.5	3131.5	3111.7	3107.5	3126.3	3159.7	3195.2	3239.0	3269.3	3290.1	3294.3
10°	3236.9	3209.7	3190.0	3194.1	3227.5	3275.5	3325.6	3382.0	3427.9	3456.0	3458.1
12.5°	3332.9	3306.8	3288.1	3305.8	3361.1	3419.5	3471.7	3520.8	3562.5	3590.7	3590.7
15°	3443.6	3424.7	3402.9	3443.6	3518.6	3570.8	3592.7	3616.7	3639.7	3660.6	3656.4
17.5°	3549.9	3532.2	3520.8	3568.8	3647.0	3671.0	3656.4	3638.6	3638.6	3650.2	3652.2
20°	3641.8	3626.1	3633.4	3680.4	3721.1	3696.0	3641.8	3585.4	3562.5	3568.8	3575.0
22.5°	3722.2	3714.8	3736.7	3758.7	3729.5	3641.8	3541.7	3465.5	3437.2	3435.2	3437.2
25°	3816.1	3815.0	3842.2	3802.5	3673.1	3511.4	3376.8	3302.6	3287.0	3299.5	3320.4
27.5°	3932.9	3944.4	3958.0	3812.9	3558.3	3314.2	3177.4	3126.3	3141.9	3172.2	3192.0
30°	4082.1	4113.4	4084.3	3786.8	3393.4	3088.7	2958.3	2943.7	2986.4	3029.3	3050.2
32.5°	4227.2	4276.3	4205.3	3719.0	3180.6	2849.8	2748.5	2744.4	2796.6	2838.3	2867.5
35°	4344.1	4441.1	4296.0	3584.4	2934.3	2629.6	2555.5	2527.4	2546.1	2595.2	2628.5
37.5°	4496.4	4658.1	4358.7	3378.8	2667.2	2448.0	2361.4	2296.7	2280.1	2299.9	2316.6
40°	4775.0	4988.9	4387.9	3091.9	2406.3	2266.5	2178.8	2083.9	2018.1	1970.1	1971.2
42.5°	5230.0	5419.9	4369.1	2743.3	2165.3	2089.1	1990.0	1880.3	1773.9	1665.4	1657.0
45°	5968.8	6060.6	4312.8	2374.0	1953.5	1903.3	1810.5	1700.9	1558.9	1435.9	1424.3
47.5°	7151.0	6947.6	4225.1	2051.5	1766.7	1745.7	1660.2	1534.0	1383.6	1284.5	1276.2
50°	8763.3	8228.0	4182.3	1794.8	1601.8	1608.0	1538.1	1404.6	1262.6	1189.6	1181.2
52.5°	10691.7	9719.1	4264.7	1596.6	1469.2	1491.1	1439.0	1313.8	1194.8	1137.4	1129.0
55°	12692.0	11263.4	4353.5	1452.6	1344.0	1386.8	1369.1	1265.8	1158.3	1105.1	1097.7
57.5°	14404.3	12416.5	4176.0	1335.7	1232.3	1299.1	1314.8	1235.5	1139.5	1091.5	1083.1
60°	15482.3	12880.9	3710.6	1226.1	1143.7	1229.3	1283.5	1227.1	1146.8	1142.6	1136.4
62.5°	15993.6	12840.2	3012.5	1139.5	1088.3	1199.0	1306.5	1274.1	1230.3	1267.8	1271.0
65°	15764.0	12226.6	2243.5	1082.1	1048.7	1210.5	1375.3	1362.8	1254.2	1291.9	1297.1
67.5°	14253.1	10762.5	1661.2	1032.0	1004.9	1242.8	1500.5	1392.0	1207.3	1234.5	1217.7
70°	11520.2	8532.6	1281.4	975.7	960.1	1238.6	1556.9	1374.3	1156.1	1162.5	1117.6
72.5°	7944.1	5818.5	1042.5	923.5	895.3	1129.0	1517.2	1330.4	1113.4	1065.4	1005.9
75°	4320.1	3123.2	885.9	869.2	781.6	991.4	1444.2	1299.1	1074.8	1011.1	977.8
77.5°	1699.9	1296.1	769.1	795.2	683.5	875.5	1362.8	1239.7	1021.5	938.1	921.4
80°	693.9	661.6	637.6	687.7	587.5	765.9	1264.7	1169.7	957.9	870.3	836.9
82.5°	393.4	411.1	495.7	542.6	476.9	705.4	1217.7	1113.4	881.7	779.5	739.8
85°	201.4	241.1	345.4	389.2	350.6	600.0	1121.8	974.6	707.5	596.8	600.0
87.5°	97.1	134.6	218.1	244.2	227.5	434.1	837.9	706.5	551.0	436.2	422.6
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)