

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: P522777

Luminaire Tested: **GALN-SA5C-730-U-T4W**

Issue Date: 5/13/2021

Test Information

Test Method: LM-79-08
Report Number: P522777
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-SA5C-730-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32087 lumens
Efficiency: N/A
Efficacy: 119.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

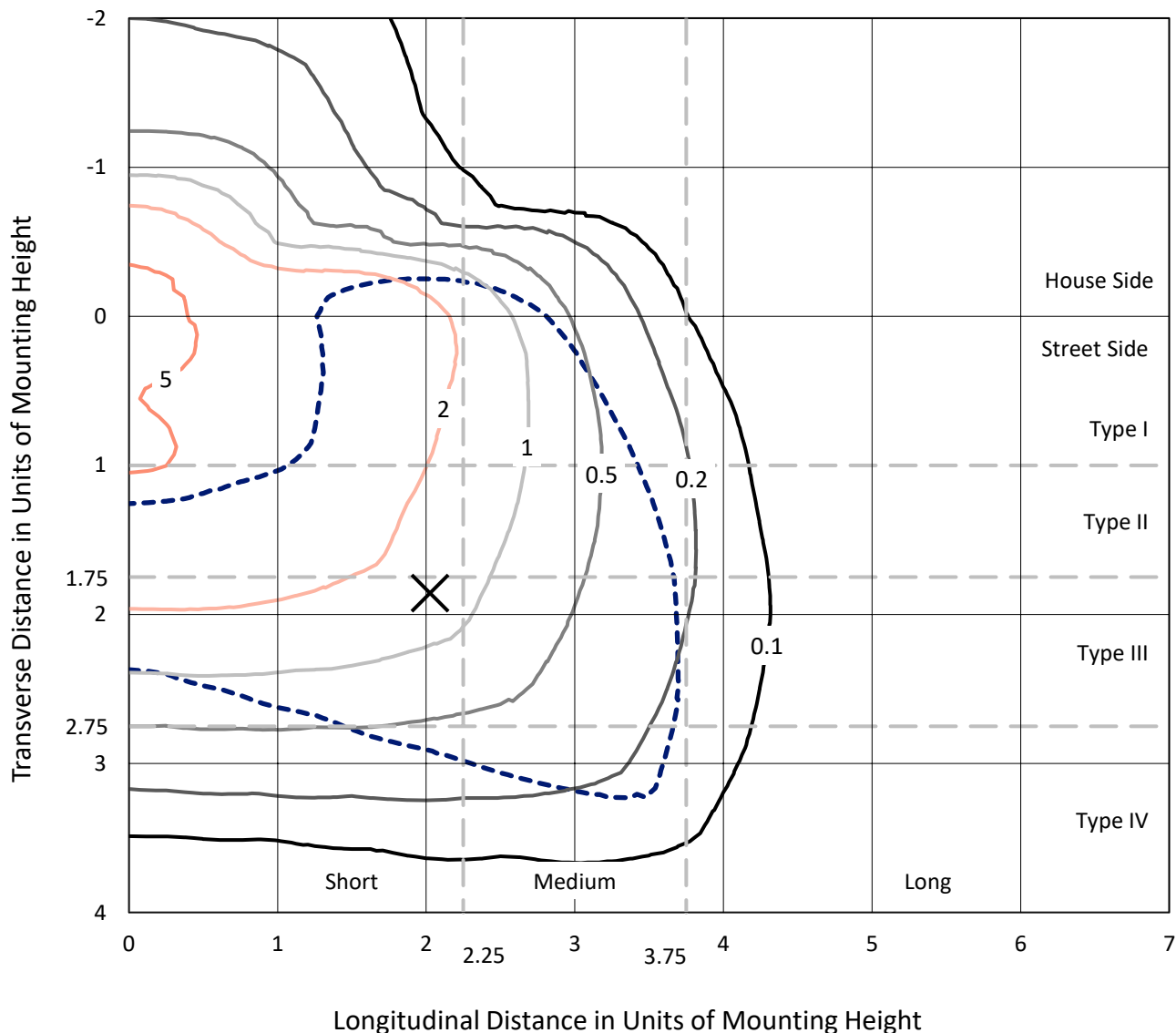
Input Watts (W): 269
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

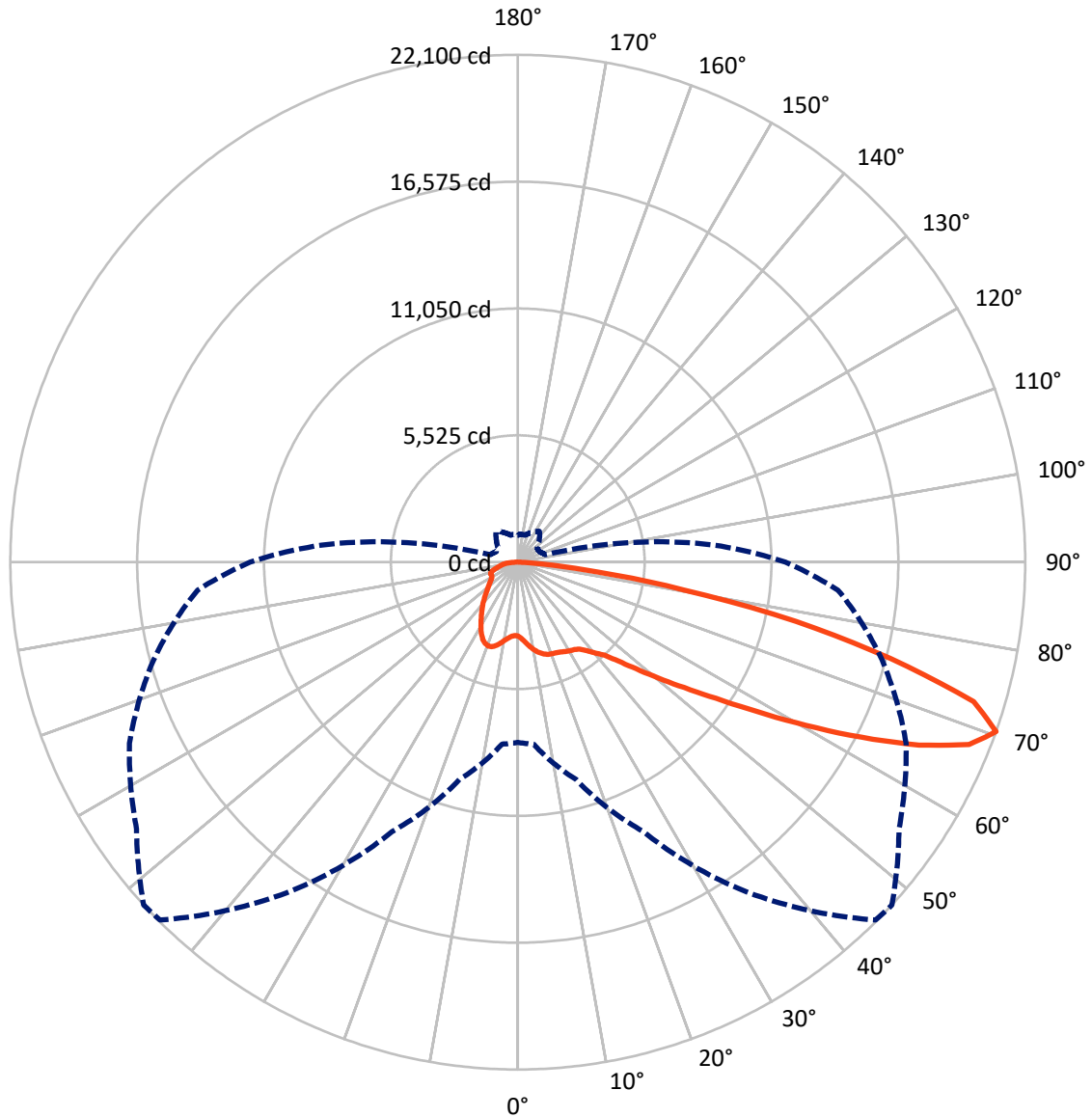
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.5 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	7265.1	0.0	7265.1
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	24821.9	0.0	24821.9
	% Fixture	77.4	0.0	77.4
Total	Lumens	32087.0	0.0	32087.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	332.0	1.0
10°-20°	1110.0	3.5
20°-30°	1845.9	5.8
30°-40°	2616.3	8.2
40°-50°	3862.3	12.0
50°-60°	6689.6	20.8
60°-70°	9449.3	29.4
70°-80°	5432.0	16.9
80°-90°	749.5	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°	32087.0	100.0
0°-180°	32087.0	100.0

Coefficient of Utilization



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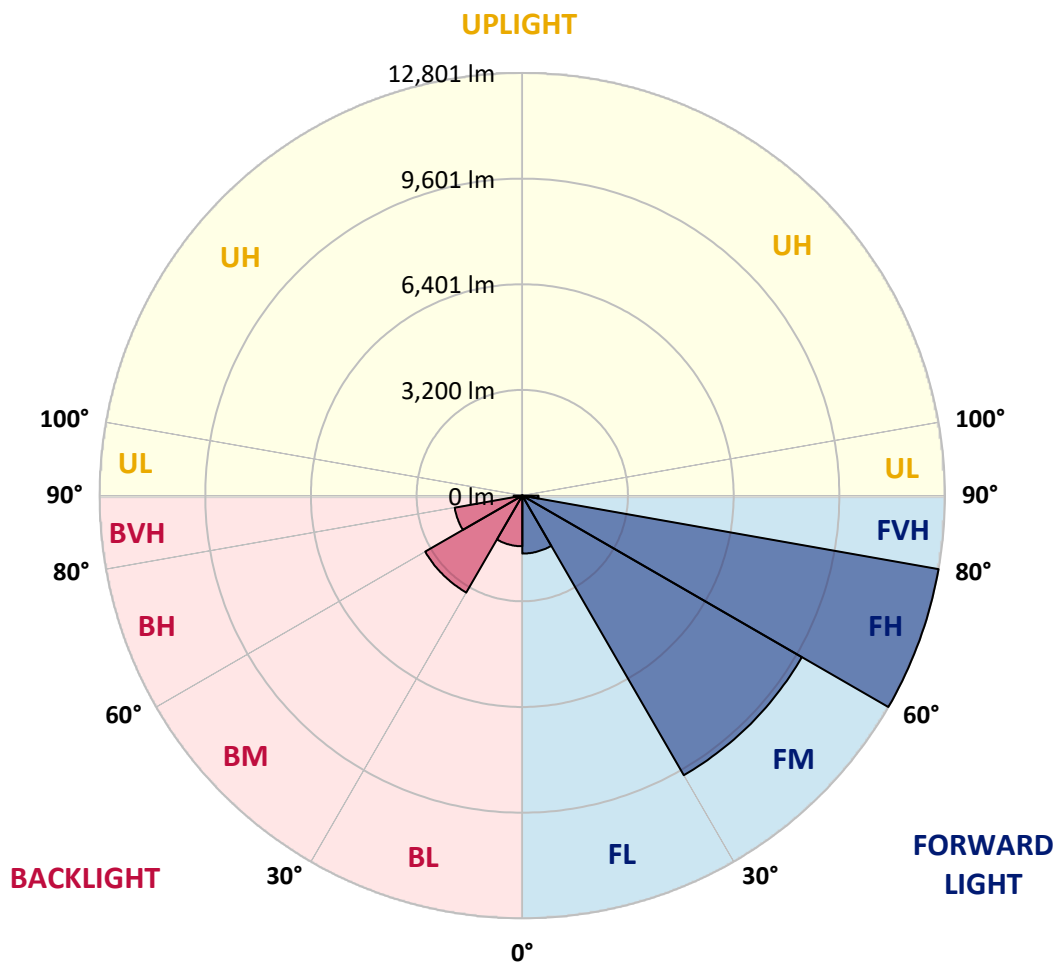
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1754.6	5.5			
FM	(30°-60°)	9776.3	30.5			
FH	(60°-80°)	12801.4	39.9			G5
FVH	(80°-90°)	489.6	1.5			G3/500
BL	(0°-30°)	1533.4	4.8	B3/2500		
BM	(30°-60°)	3392.0	10.6	B3/5000		
BH	(60°-80°)	2079.9	6.5	B3/2500		G3/2500
BVH	(80°-90°)	259.9	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°	3221.1	3221.1	3221.1	3221.1	3221.1	3221.1	3221.1	3221.1	3221.1	3221.1	3221.1
2.5°	3428.9	3416.9	3415.2	3389.4	3375.7	3349.9	3339.6	3315.6	3286.4	3257.2	3229.7
5°	3698.5	3698.5	3686.5	3650.4	3593.7	3535.4	3509.6	3463.2	3380.8	3313.9	3257.2
7.5°	3974.9	3978.4	3954.3	3901.1	3820.4	3726.0	3701.9	3633.2	3516.5	3418.6	3334.5
10°	4213.6	4213.6	4181.0	4108.9	4007.5	3904.5	3880.5	3803.2	3672.7	3550.8	3440.9
12.5°	4395.6	4395.6	4352.7	4258.2	4148.3	4055.6	4028.2	3954.3	3832.4	3696.8	3557.7
15°	4514.1	4505.5	4457.4	4351.0	4244.5	4163.8	4144.9	4083.1	3971.5	3834.1	3677.9
17.5°	4519.2	4515.8	4469.4	4380.1	4287.4	4232.5	4220.5	4179.3	4091.7	3961.2	3796.4
20°	4419.6	4426.5	4395.6	4332.1	4287.4	4263.4	4258.2	4244.5	4182.7	4060.8	3895.9
22.5°	4313.2	4325.2	4296.0	4261.7	4258.2	4282.3	4285.7	4289.1	4249.6	4131.2	3980.1
25°	4287.4	4296.0	4266.8	4235.9	4254.8	4318.3	4332.1	4345.8	4314.9	4215.3	4079.7
27.5°	4417.9	4411.1	4354.4	4287.4	4299.4	4385.3	4404.2	4419.6	4404.2	4318.3	4203.3
30°	4787.1	4764.8	4651.4	4455.7	4393.9	4454.0	4472.9	4515.8	4515.8	4452.3	4337.2
32.5°	5405.2	5362.3	5154.5	4769.9	4555.3	4519.2	4538.1	4608.5	4644.6	4594.8	4469.4
35°	6155.6	6110.9	5813.9	5297.0	4850.6	4649.7	4644.6	4723.6	4819.7	4708.1	4545.0
37.5°	6909.3	6863.0	6505.8	5925.5	5281.6	4924.4	4893.5	4921.0	4962.2	4757.9	4649.7
40°	7663.1	7608.2	7295.7	6627.7	5808.7	5288.5	5207.8	5084.1	5067.0	4921.0	4852.3
42.5°	8410.0	8360.2	8202.3	7415.9	6440.6	5643.9	5520.3	5307.3	5372.6	5285.0	5224.9
45°	9163.8	9167.2	8999.0	8300.1	7202.9	6299.8	6133.2	5800.1	5954.7	5922.0	5956.4
47.5°	9831.7	9823.1	9763.0	9158.6	8149.0	7144.6	6929.9	6543.6	6808.0	6928.2	7190.9
50°	10479.0	10473.9	10477.3	10132.2	9247.9	8149.0	7912.1	7506.9	8102.7	8519.9	8990.4
52.5°	11406.2	11435.4	11227.7	11136.7	10583.8	9335.5	9074.5	8655.5	9632.5	10290.2	11208.8
55°	12336.9	12312.8	12149.7	12244.1	11981.4	10740.0	10467.0	10133.9	11335.8	12055.3	13435.8
57.5°	12884.6	12893.2	13059.7	13521.6	13707.1	12491.4	12244.1	11986.6	13250.3	13760.3	15417.2
60°	13377.4	13416.9	13895.9	14768.2	15271.3	14642.8	14423.1	14172.4	15006.8	15209.5	17137.7
62.5°	13531.9	13653.8	14490.0	15795.0	16796.0	17070.7	16797.7	16244.8	16679.2	16600.2	18303.5
65°	12761.0	12927.5	14426.5	16179.6	18157.6	19375.0	19201.5	18174.8	18104.4	17628.7	18494.1
67.5°	10731.4	10898.0	12822.8	15372.6	18720.8	21370.2	21196.7	19582.7	18969.7	17724.9	17051.8
70°	7852.0	7956.7	9797.4	12943.0	17589.3	22039.8	22099.9	20269.5	18660.7	16418.2	14000.7
72.5°	4524.4	4756.2	6045.7	9105.4	14369.8	20346.8	20764.0	18841.0	16706.7	13696.8	9788.8
75°	1945.4	1950.5	2795.3	5022.3	9732.1	16354.7	16758.2	15618.1	13119.8	9471.1	5226.6
77.5°	925.5	942.6	1229.4	2242.4	5357.1	11299.8	12388.4	11033.6	8391.1	4550.1	1974.6
80°	601.0	613.0	752.1	1112.6	2627.1	6552.2	7311.1	6365.0	3701.9	1626.0	851.6
82.5°	364.0	367.4	503.1	679.9	1445.7	2967.0	3497.6	2762.7	1579.7	973.6	501.4
85°	221.5	223.2	305.6	420.7	877.4	1025.1	1052.5	1044.0	927.2	637.0	267.9
87.5°	106.5	109.9	158.0	199.2	345.1	317.7	300.5	348.6	437.8	343.4	115.0
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°	3221.1	3221.1	3221.1	3221.1	3221.1	3221.1	3221.1	3221.1	3221.1	3221.1	3221.1
2.5°	3217.7	3212.6	3200.5	3195.4	3192.0	3193.7	3192.0	3192.0	3193.7	3193.7	3193.7
5°	3233.2	3224.6	3205.7	3205.7	3216.0	3240.0	3262.4	3279.5	3298.4	3296.7	3296.7
7.5°	3300.1	3284.7	3262.4	3269.2	3295.0	3332.8	3372.2	3410.0	3447.8	3451.2	3449.5
10°	3398.0	3382.5	3358.5	3367.1	3408.3	3465.0	3514.8	3569.7	3610.9	3622.9	3619.5
12.5°	3509.6	3478.7	3458.1	3482.1	3547.4	3622.9	3671.0	3712.2	3741.4	3758.6	3751.7
15°	3622.9	3593.7	3569.7	3619.5	3698.5	3768.9	3792.9	3799.8	3804.9	3822.1	3818.7
17.5°	3732.8	3693.3	3684.7	3750.0	3825.5	3856.4	3842.7	3813.5	3791.2	3804.9	3803.2
20°	3830.7	3799.8	3796.4	3861.6	3890.8	3861.6	3803.2	3751.7	3712.2	3715.7	3713.9
22.5°	3923.4	3899.4	3902.8	3930.3	3883.9	3784.3	3688.2	3617.8	3574.9	3583.4	3588.6
25°	4026.4	4002.4	4011.0	3966.3	3813.5	3640.1	3501.0	3440.9	3423.8	3440.9	3452.9
27.5°	4160.4	4144.9	4139.8	3968.1	3688.2	3427.2	3269.2	3246.9	3262.4	3300.1	3319.0
30°	4304.6	4304.6	4277.1	3938.9	3516.5	3171.4	3034.0	3037.4	3090.7	3143.9	3162.8
32.5°	4443.7	4472.9	4387.0	3859.9	3295.0	2922.4	2817.6	2821.1	2867.4	2932.7	2949.9
35°	4558.7	4642.8	4481.4	3715.7	3034.0	2712.9	2633.9	2587.6	2589.3	2639.1	2652.8
37.5°	4716.7	4872.9	4536.4	3501.0	2755.8	2534.3	2445.1	2364.4	2311.1	2290.5	2290.5
40°	4991.4	5221.5	4550.1	3183.4	2493.1	2364.4	2237.3	2141.1	2038.1	1945.4	1928.2
42.5°	5456.7	5746.9	4522.7	2817.6	2256.2	2177.2	2053.6	1935.1	1792.6	1662.1	1651.8
45°	6280.9	6430.3	4448.8	2438.2	2045.0	1996.9	1876.7	1747.9	1596.8	1480.1	1471.5
47.5°	7601.3	7390.1	4351.0	2101.6	1852.7	1838.9	1746.2	1596.8	1445.7	1365.0	1356.5
50°	9529.5	8901.1	4337.2	1857.8	1698.1	1705.0	1629.5	1492.1	1359.9	1292.9	1282.6
52.5°	11850.9	10726.3	4428.2	1686.1	1562.5	1588.3	1550.5	1423.4	1306.7	1250.0	1239.7
55°	14103.7	12367.8	4483.2	1552.2	1435.4	1483.5	1488.7	1382.2	1275.8	1219.1	1212.2
57.5°	15932.3	13604.0	4239.3	1430.3	1325.5	1399.4	1437.2	1358.2	1260.3	1217.4	1210.5
60°	17204.6	14187.8	3545.7	1322.1	1244.8	1332.4	1418.3	1359.9	1298.1	1303.2	1306.7
62.5°	17609.9	13928.5	2659.7	1241.4	1189.9	1310.1	1449.2	1430.3	1366.8	1406.2	1413.1
65°	16938.5	12857.1	1928.2	1177.9	1141.8	1325.5	1541.9	1481.8	1342.7	1371.9	1371.9
67.5°	14690.9	11076.6	1500.7	1119.5	1086.9	1354.7	1634.6	1476.6	1286.1	1320.4	1289.5
70°	11653.5	8568.0	1250.0	1054.3	1028.5	1311.8	1643.2	1423.4	1219.1	1226.0	1167.6
72.5°	7733.5	5633.6	1074.9	992.4	939.2	1179.6	1572.8	1354.7	1153.8	1114.4	1056.0
75°	3789.5	2809.1	937.5	915.2	822.5	1026.8	1476.6	1289.5	1083.4	1021.6	989.0
77.5°	1468.1	1195.1	800.1	817.3	716.0	904.9	1349.6	1196.8	990.7	906.6	880.8
80°	712.6	678.2	655.9	681.7	588.9	770.9	1232.8	1116.1	904.9	812.2	774.4
82.5°	443.0	419.0	503.1	530.6	453.3	704.0	1169.3	1047.4	796.7	673.1	642.2
85°	224.9	240.4	336.5	362.3	324.5	559.8	963.3	786.4	575.2	477.3	480.8
87.5°	85.9	115.0	176.9	190.6	173.4	295.3	530.6	458.4	369.2	250.7	231.8
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)