

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: P522750

Luminaire Tested: **GALN-SA4D-730-U-T4W**

Issue Date: 5/13/2021

Test Information

Test Method: LM-79-08
Report Number: P522750
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-SA4D-730-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27891 lumens
Efficiency: N/A
Efficacy: 113.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

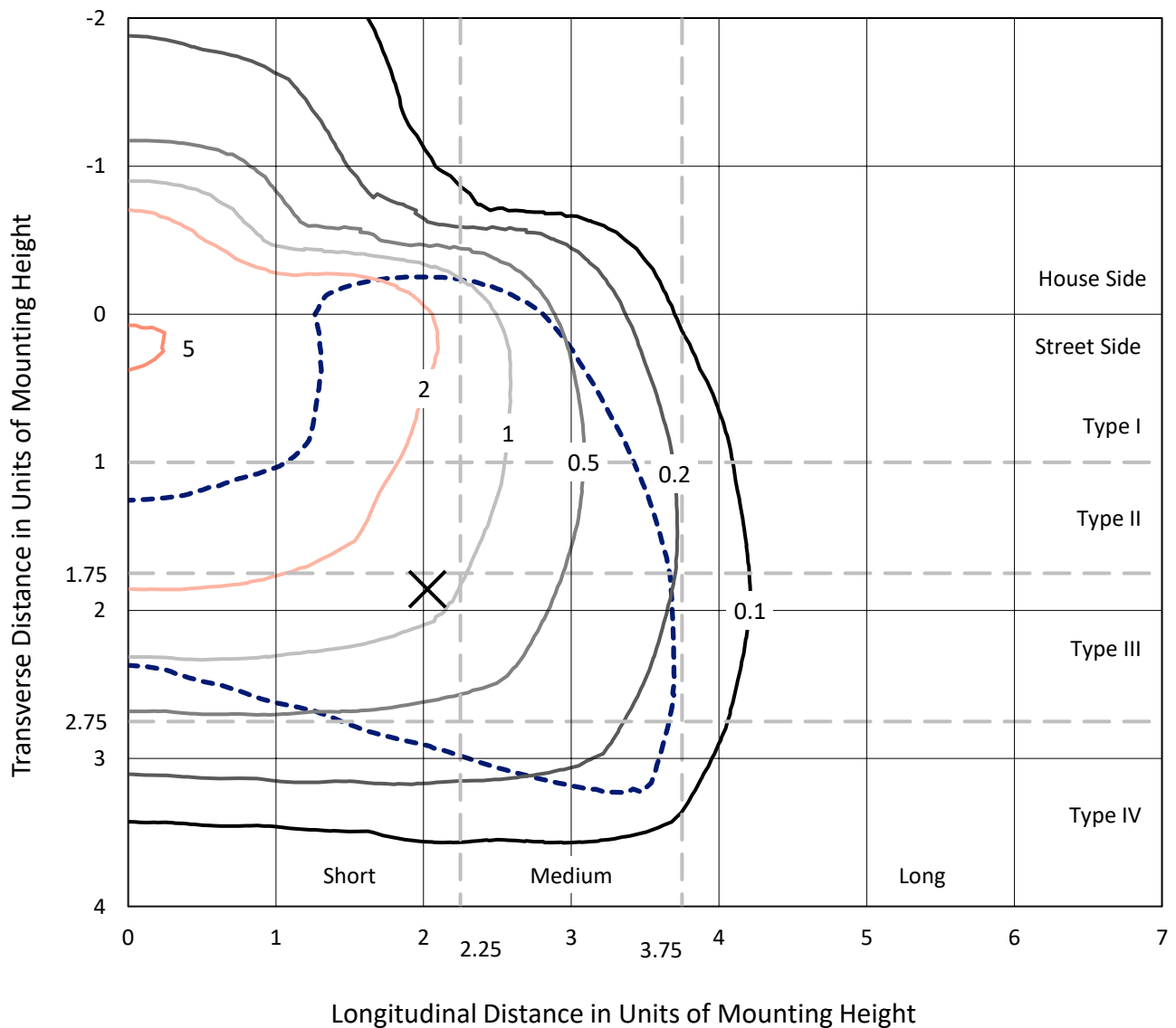
Input Watts (W): 245
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

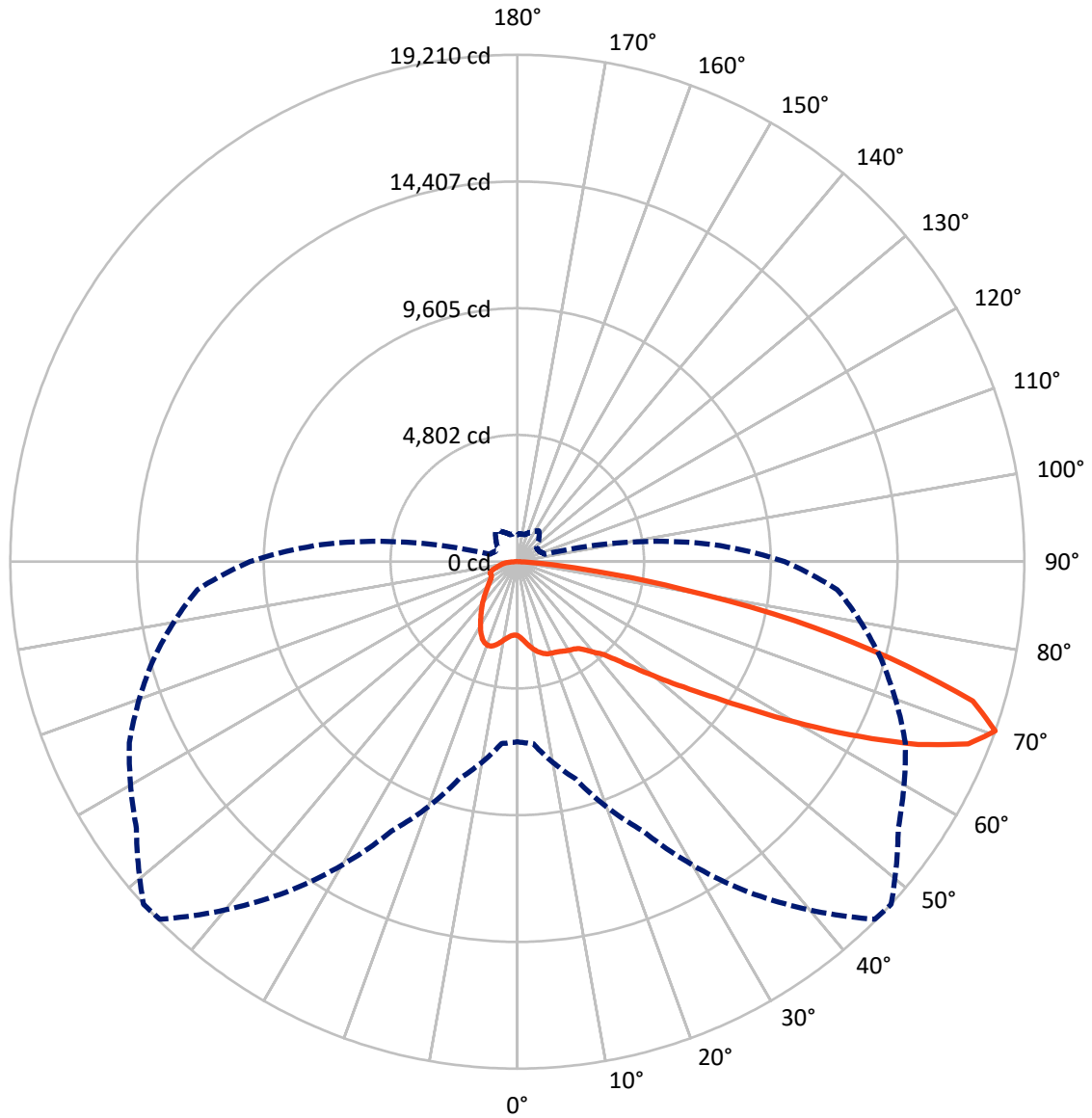
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.7 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	6315.1	0.0	6315.1
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	21575.9	0.0	21575.9
	% Fixture	77.4	0.0	77.4
Total	Lumens	27891.0	0.0	27891.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	288.6	1.0
10°-20°	964.9	3.5
20°-30°	1604.5	5.8
30°-40°	2274.2	8.2
40°-50°	3357.2	12.0
50°-60°	5814.8	20.8
60°-70°	8213.6	29.4
70°-80°	4721.6	16.9
80°-90°	651.5	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°	27891.0	100.0
0°-180°	27891.0	100.0

Coefficient of Utilization



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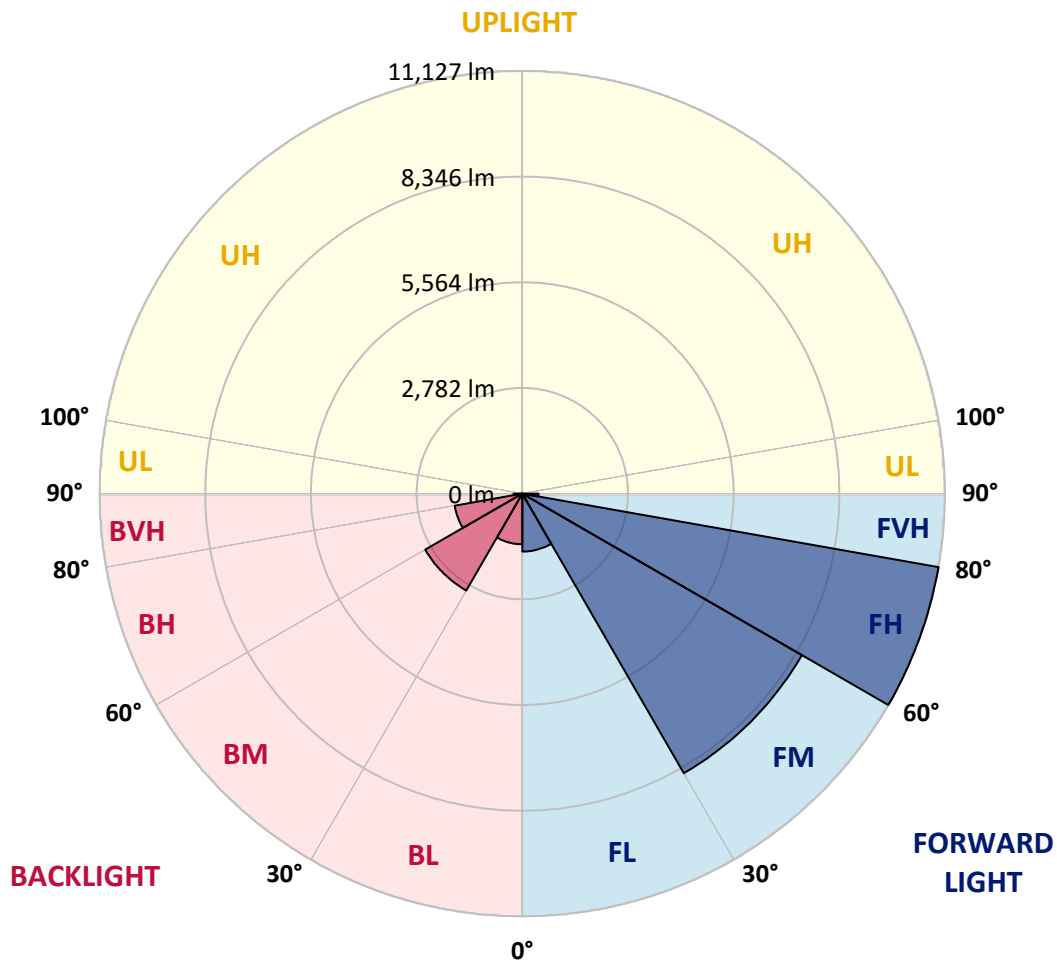
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1525.2	5.5			
FM (30°-60°)	8497.9	30.5			
FH (60°-80°)	11127.3	39.9			G4/12000
FVH (80°-90°)	425.6	1.5			G3/500
BL (0°-30°)	1332.8	4.8	B3/2500		
BM (30°-60°)	2948.4	10.6	B3/5000		
BH (60°-80°)	1807.9	6.5	B3/2500		G3/2500
BVH (80°-90°)	225.9	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-G4

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47.5°	55°	65°	75°	85°
0°	2799.9	2799.9	2799.9	2799.9	2799.9	2799.9	2799.9	2799.9	2799.9	2799.9	2799.9
2.5°	2980.5	2970.1	2968.6	2946.2	2934.2	2911.9	2902.9	2882.0	2856.6	2831.3	2807.4
5°	3214.8	3214.8	3204.4	3173.0	3123.8	3073.0	3050.7	3010.4	2938.7	2880.5	2831.3
7.5°	3455.1	3458.1	3437.2	3390.9	3320.8	3238.7	3217.8	3158.1	3056.6	2971.6	2898.4
10°	3662.6	3662.6	3634.2	3571.5	3483.5	3393.9	3373.0	3305.9	3192.4	3086.5	2991.0
12.5°	3820.8	3820.8	3783.5	3701.4	3605.9	3525.3	3501.4	3437.2	3331.2	3213.3	3092.4
15°	3923.8	3916.3	3874.5	3782.0	3689.4	3619.3	3602.9	3549.2	3452.1	3332.7	3196.9
17.5°	3928.2	3925.3	3885.0	3807.4	3726.8	3679.0	3668.6	3632.7	3556.6	3443.2	3299.9
20°	3841.7	3847.7	3820.8	3765.6	3726.8	3705.9	3701.4	3689.4	3635.7	3529.8	3386.5
22.5°	3749.1	3759.6	3734.2	3704.4	3701.4	3722.3	3725.3	3728.3	3693.9	3590.9	3459.6
25°	3726.8	3734.2	3708.9	3682.0	3698.4	3753.6	3765.6	3777.5	3750.6	3664.1	3546.2
27.5°	3840.2	3834.2	3785.0	3726.8	3737.2	3811.8	3828.2	3841.7	3828.2	3753.6	3653.6
30°	4161.1	4141.7	4043.2	3873.0	3819.3	3871.5	3887.9	3925.3	3925.3	3870.0	3770.0
32.5°	4698.4	4661.1	4480.5	4146.2	3959.6	3928.2	3944.7	4005.9	4037.2	3993.9	3885.0
35°	5350.6	5311.8	5053.6	4604.3	4216.3	4041.7	4037.2	4105.9	4189.4	4092.4	3950.6
37.5°	6005.8	5965.5	5655.1	5150.6	4590.9	4280.5	4253.6	4277.5	4313.3	4135.7	4041.7
40°	6661.0	6613.2	6341.6	5761.0	5049.1	4596.9	4526.7	4419.3	4404.4	4277.5	4217.8
42.5°	7310.2	7267.0	7129.6	6446.1	5598.3	4905.8	4798.4	4613.3	4670.0	4593.9	4541.7
45°	7965.4	7968.4	7822.2	7214.7	6261.0	5476.0	5331.2	5041.6	5176.0	5147.6	5177.5
47.5°	8546.0	8538.6	8486.3	7961.0	7083.4	6210.3	6023.7	5687.9	5917.7	6022.2	6250.6
50°	9108.7	9104.2	9107.2	8807.2	8038.6	7083.4	6877.4	6525.2	7043.1	7405.8	7814.7
52.5°	9914.6	9940.0	9759.4	9680.3	9199.7	8114.7	7887.8	7523.7	8372.9	8944.5	9743.0
55°	10723.6	10702.7	10560.9	10643.0	10414.6	9335.6	9098.3	8808.7	9853.5	10478.8	11678.8
57.5°	11199.7	11207.1	11351.9	11753.4	11914.6	10857.9	10643.0	10419.1	11517.6	11960.9	13401.1
60°	11628.0	11662.4	12078.8	12837.0	13274.3	12728.0	12537.0	12319.1	13044.4	13220.5	14896.6
62.5°	11762.4	11868.3	12595.2	13729.5	14599.6	14838.4	14601.1	14120.5	14498.1	14429.4	15910.0
65°	11092.2	11237.0	12539.9	14063.8	15783.1	16841.3	16690.6	15798.1	15736.9	15323.4	16075.7
67.5°	9328.1	9472.9	11146.0	13362.3	16272.7	18575.6	18424.9	17021.9	16489.1	15407.0	14822.0
70°	6825.2	6916.2	8516.2	11250.4	15289.1	19157.7	19209.9	17618.9	16220.4	14271.2	12169.8
72.5°	3932.7	4134.2	5255.1	7914.7	12490.7	17686.1	18048.7	16377.1	14522.0	11905.6	8508.7
75°	1691.0	1695.5	2429.8	4365.5	8459.5	14216.0	14566.8	13575.7	11404.2	8232.6	4543.2
77.5°	804.5	819.4	1068.6	1949.2	4656.6	9822.1	10768.4	9590.8	7293.8	3955.1	1716.4
80°	522.4	532.8	653.7	967.1	2283.5	5695.4	6355.0	5532.7	3217.8	1413.4	740.3
82.5°	316.4	319.4	437.3	591.0	1256.7	2579.0	3040.2	2401.4	1373.1	846.2	435.8
85°	192.5	194.0	265.7	365.7	762.7	891.0	914.9	907.4	805.9	553.7	232.8
87.5°	92.5	95.5	137.3	173.1	300.0	276.1	261.2	303.0	380.6	298.5	100.0
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°	2799.9	2799.9	2799.9	2799.9	2799.9	2799.9	2799.9	2799.9	2799.9	2799.9	2799.9
2.5°	2796.9	2792.5	2782.0	2777.5	2774.5	2776.0	2774.5	2774.5	2776.0	2776.0	2776.0
5°	2810.4	2802.9	2786.5	2786.5	2795.4	2816.3	2835.7	2850.7	2867.1	2865.6	2865.6
7.5°	2868.6	2855.1	2835.7	2841.7	2864.1	2896.9	2931.3	2964.1	2996.9	2999.9	2998.4
10°	2953.6	2940.2	2919.3	2926.8	2962.6	3011.9	3055.1	3102.9	3138.7	3149.2	3146.2
12.5°	3050.7	3023.8	3005.9	3026.8	3083.5	3149.2	3191.0	3226.8	3252.1	3267.1	3261.1
15°	3149.2	3123.8	3102.9	3146.2	3214.8	3276.0	3296.9	3302.9	3307.4	3322.3	3319.3
17.5°	3244.7	3210.4	3202.9	3259.6	3325.3	3352.1	3340.2	3314.8	3295.4	3307.4	3305.9
20°	3329.8	3302.9	3299.9	3356.6	3382.0	3356.6	3305.9	3261.1	3226.8	3229.8	3228.3
22.5°	3410.4	3389.5	3392.4	3416.3	3376.0	3289.5	3205.9	3144.7	3107.4	3114.8	3119.3
25°	3499.9	3479.0	3486.5	3447.7	3314.8	3164.1	3043.2	2991.0	2976.0	2991.0	3001.4
27.5°	3616.3	3602.9	3598.4	3449.2	3205.9	2979.0	2841.7	2822.3	2835.7	2868.6	2885.0
30°	3741.7	3741.7	3717.8	3423.8	3056.6	2756.6	2637.2	2640.2	2686.5	2732.8	2749.2
32.5°	3862.6	3887.9	3813.3	3355.1	2864.1	2540.2	2449.2	2452.2	2492.5	2549.2	2564.1
35°	3962.6	4035.7	3895.4	3229.8	2637.2	2358.1	2289.5	2249.2	2250.7	2294.0	2305.9
37.5°	4099.9	4235.7	3943.2	3043.2	2395.5	2202.9	2125.3	2055.2	2008.9	1991.0	1991.0
40°	4338.7	4538.7	3955.1	2767.1	2167.1	2055.2	1944.7	1861.1	1771.6	1691.0	1676.1
42.5°	4743.1	4995.4	3931.2	2449.2	1961.1	1892.5	1785.0	1682.0	1558.2	1444.7	1435.8
45°	5459.5	5589.4	3867.1	2119.3	1777.6	1735.8	1631.3	1519.4	1388.0	1286.5	1279.1
47.5°	6607.3	6423.7	3782.0	1826.8	1610.4	1598.5	1517.9	1388.0	1256.7	1186.5	1179.1
50°	8283.3	7737.1	3770.0	1614.9	1476.1	1482.0	1416.4	1297.0	1182.1	1123.8	1114.9
52.5°	10301.2	9323.6	3849.1	1465.6	1358.2	1380.6	1347.7	1237.3	1135.8	1086.5	1077.6
55°	12259.4	10750.4	3896.9	1349.2	1247.7	1289.5	1294.0	1201.5	1108.9	1059.7	1053.7
57.5°	13848.9	11825.0	3685.0	1243.2	1152.2	1216.4	1249.2	1180.6	1095.5	1058.2	1052.2
60°	14954.8	12332.5	3082.0	1149.2	1082.1	1158.2	1232.8	1182.1	1128.3	1132.8	1135.8
62.5°	15307.0	12107.1	2311.9	1079.1	1034.3	1138.8	1259.7	1243.2	1188.0	1222.4	1228.3
65°	14723.5	11175.8	1676.1	1023.9	992.5	1152.2	1340.3	1288.0	1167.1	1192.5	1192.5
67.5°	12769.8	9628.1	1304.4	973.1	944.7	1177.6	1420.9	1283.5	1117.9	1147.7	1120.9
70°	10129.6	7447.6	1086.5	916.4	894.0	1140.3	1428.3	1237.3	1059.7	1065.6	1014.9
72.5°	6722.2	4896.9	934.3	862.7	816.4	1025.3	1367.1	1177.6	1003.0	968.6	917.9
75°	3293.9	2441.7	814.9	795.5	714.9	892.5	1283.5	1120.9	941.8	888.0	859.7
77.5°	1276.1	1038.8	695.5	710.4	622.4	786.5	1173.1	1040.3	861.2	788.0	765.6
80°	619.4	589.5	570.1	592.5	511.9	670.1	1071.6	970.1	786.5	706.0	673.1
82.5°	385.1	364.2	437.3	461.2	394.0	611.9	1016.4	910.4	692.5	585.1	558.2
85°	195.5	208.9	292.5	314.9	282.1	486.6	837.3	683.6	500.0	414.9	417.9
87.5°	74.6	100.0	153.7	165.7	150.7	256.7	461.2	398.5	320.9	217.9	201.5
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)