

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: P522768

Luminaire Tested: **GALN-SA5B-730-U-T4W**

Issue Date: 5/13/2021

Test Information

Test Method: LM-79-08
Report Number: P522768
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-SA5B-730-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25970 lumens
Efficiency: N/A
Efficacy: 127.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

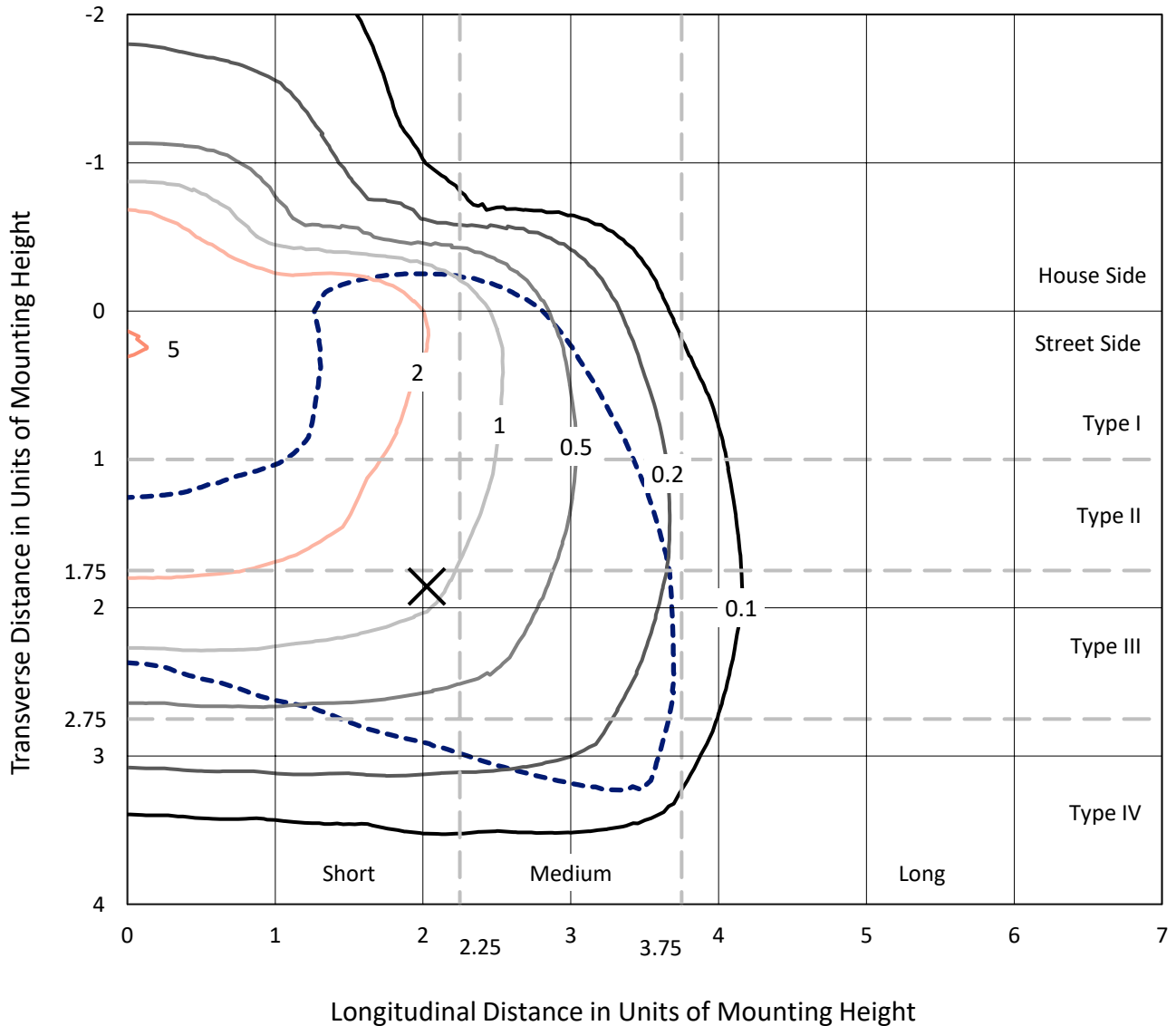
Input Watts (W): 204
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

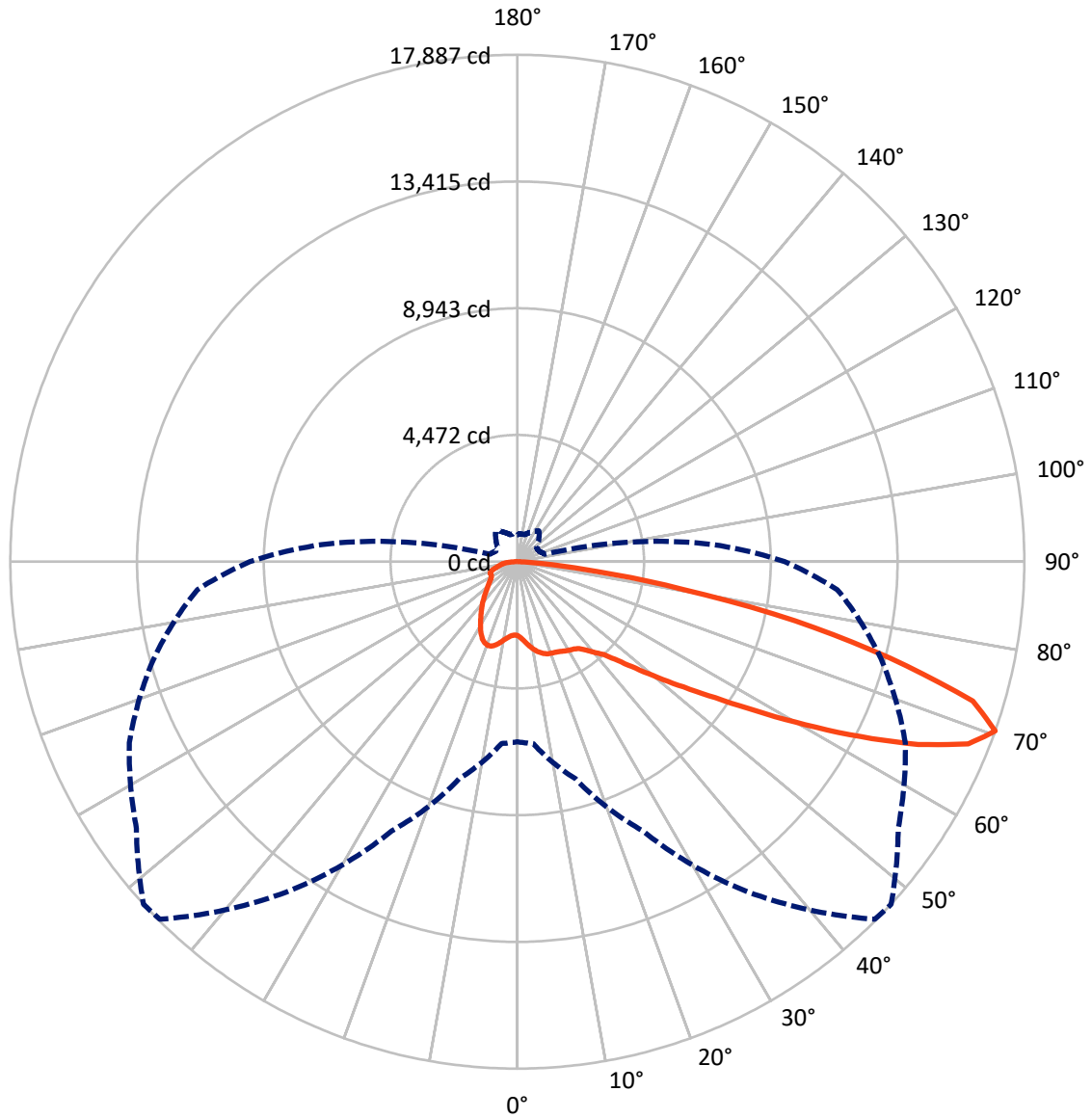
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.3 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	5880.1	0.0	5880.1
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	20089.9	0.0	20089.9
	% Fixture	77.4	0.0	77.4
Total	Lumens	25970.0	0.0	25970.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	268.7	1.0
10°-20°	898.4	3.5
20°-30°	1494.0	5.8
30°-40°	2117.6	8.2
40°-50°	3126.0	12.0
50°-60°	5414.3	20.8
60°-70°	7647.9	29.4
70°-80°	4396.4	16.9
80°-90°	606.6	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°	25970.0	100.0
0°-180°	25970.0	100.0

Coefficient of Utilization



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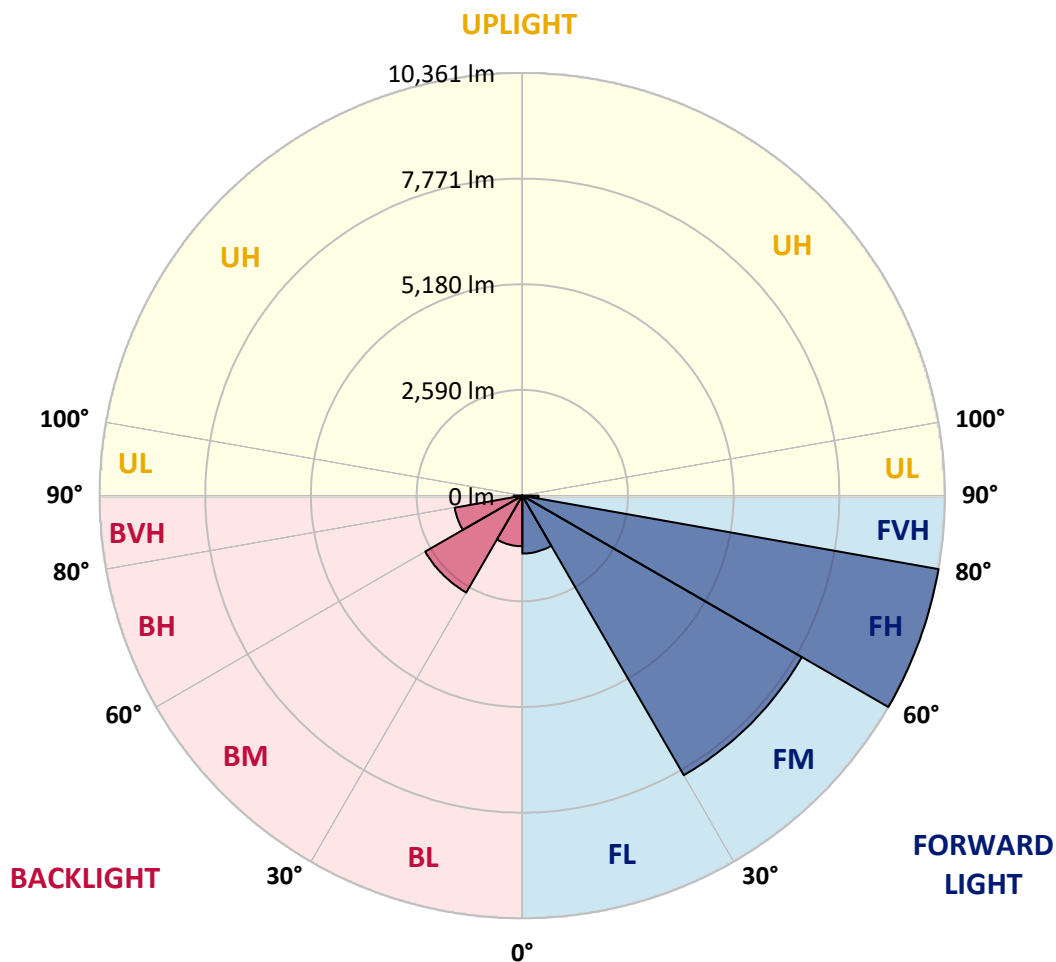
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1420.1	5.5			
FM	(30°-60°)	7912.6	30.5			
FH	(60°-80°)	10360.9	39.9			G4/12000
FVH	(80°-90°)	396.2	1.5			G3/500
BL	(0°-30°)	1241.0	4.8	B3/2500		
BM	(30°-60°)	2745.3	10.6	B3/5000		
BH	(60°-80°)	1683.4	6.5	B3/2500		G3/2500
BVH	(80°-90°)	210.4	0.8			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°	35°	45°	47.5°	55°	65°	75°	85°
0°	2607.1	2607.1	2607.1	2607.1	2607.1	2607.1	2607.1	2607.1	2607.1	2607.1	2607.1
2.5°	2775.2	2765.5	2764.1	2743.3	2732.1	2711.3	2703.0	2683.5	2659.9	2636.3	2614.0
5°	2993.4	2993.4	2983.7	2954.5	2908.6	2861.4	2840.5	2803.0	2736.3	2682.1	2636.3
7.5°	3217.2	3219.9	3200.5	3157.4	3092.1	3015.6	2996.2	2940.6	2846.1	2766.9	2698.8
10°	3410.3	3410.3	3383.9	3325.5	3243.6	3160.2	3140.7	3078.2	2972.6	2873.9	2785.0
12.5°	3557.6	3557.6	3522.9	3446.5	3357.5	3282.5	3260.2	3200.5	3101.8	2992.0	2879.5
15°	3653.5	3646.6	3607.7	3521.5	3435.3	3370.0	3354.7	3304.7	3214.4	3103.2	2976.7
17.5°	3657.7	3654.9	3617.4	3545.1	3470.1	3425.6	3415.9	3382.5	3311.7	3206.0	3072.6
20°	3577.1	3582.6	3557.6	3506.2	3470.1	3450.6	3446.5	3435.3	3385.3	3286.6	3153.2
22.5°	3490.9	3500.7	3477.0	3449.2	3446.5	3465.9	3468.7	3471.5	3439.5	3343.6	3221.3
25°	3470.1	3477.0	3453.4	3428.4	3443.7	3495.1	3506.2	3517.3	3492.3	3411.7	3301.9
27.5°	3575.7	3570.1	3524.3	3470.1	3479.8	3549.3	3564.6	3577.1	3564.6	3495.1	3402.0
30°	3874.5	3856.4	3764.7	3606.3	3556.2	3604.9	3620.2	3654.9	3654.9	3603.5	3510.4
32.5°	4374.8	4340.0	4171.9	3860.6	3686.9	3657.7	3673.0	3730.0	3759.1	3718.8	3617.4
35°	4982.1	4945.9	4705.5	4287.2	3925.9	3763.3	3759.1	3823.1	3900.9	3810.6	3678.5
37.5°	5592.1	5554.6	5265.6	4795.9	4274.7	3985.7	3960.6	3982.9	4016.2	3850.9	3763.3
40°	6202.2	6157.8	5904.8	5364.2	4701.4	4280.3	4215.0	4114.9	4101.0	3982.9	3927.3
42.5°	6806.7	6766.4	6638.6	6002.1	5212.8	4567.9	4467.9	4295.6	4348.4	4277.5	4228.9
45°	7416.8	7419.6	7283.4	6717.8	5829.8	5098.8	4964.0	4694.4	4819.5	4793.1	4820.9
47.5°	7957.4	7950.5	7901.8	7412.7	6595.5	5782.5	5608.8	5296.1	5510.2	5607.4	5820.1
50°	8481.3	8477.2	8479.9	8200.6	7484.9	6595.5	6403.7	6075.8	6558.0	6895.7	7276.5
52.5°	9231.8	9255.4	9087.2	9013.6	8566.1	7555.8	7344.6	7005.5	7796.2	8328.5	9072.0
55°	9985.0	9965.5	9833.5	9909.9	9697.3	8692.6	8471.6	8202.0	9174.8	9757.1	10874.4
57.5°	10428.3	10435.3	10570.1	10943.9	11094.0	10110.1	9909.9	9701.5	10724.3	11137.0	12478.1
60°	10827.1	10859.1	11246.8	11952.8	12360.0	11851.4	11673.5	11470.6	12146.0	12310.0	13870.6
62.5°	10952.2	11050.9	11727.7	12783.8	13594.0	13816.4	13595.4	13147.9	13499.5	13435.6	14814.2
65°	10328.2	10463.0	11676.3	13095.1	14696.1	15681.4	15541.0	14710.0	14653.0	14268.0	14968.4
67.5°	8685.6	8820.4	10378.3	12442.0	15151.9	17296.2	17155.8	15849.5	15353.4	14345.9	13801.1
70°	6355.1	6439.9	7929.6	10475.6	14236.1	17838.2	17886.8	16405.4	15103.2	13288.3	11331.6
72.5°	3661.9	3849.5	4893.1	7369.6	11630.4	16467.9	16805.6	15249.2	13521.8	11085.6	7922.7
75°	1574.5	1578.7	2262.4	4064.9	7876.8	13236.9	13563.5	12640.7	10618.7	7665.6	4230.2
77.5°	749.0	762.9	995.0	1814.9	4335.9	9145.6	10026.7	8930.2	6791.5	3682.7	1598.2
80°	486.4	496.1	608.7	900.5	2126.2	5303.1	5917.3	5151.6	2996.2	1316.0	689.3
82.5°	294.6	297.4	407.2	550.3	1170.1	2401.4	2830.8	2236.0	1278.5	788.0	405.8
85°	179.3	180.7	247.4	340.5	710.1	829.7	851.9	844.9	750.4	515.6	216.8
87.5°	86.2	88.9	127.9	161.2	279.3	257.1	243.2	282.1	354.4	277.9	93.1
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°	2607.1	2607.1	2607.1	2607.1	2607.1	2607.1	2607.1	2607.1	2607.1	2607.1	2607.1
2.5°	2604.3	2600.1	2590.4	2586.2	2583.5	2584.8	2583.5	2583.5	2584.8	2584.8	2584.8
5°	2616.8	2609.9	2594.6	2594.6	2602.9	2622.4	2640.4	2654.3	2669.6	2668.2	2668.2
7.5°	2671.0	2658.5	2640.4	2646.0	2666.8	2697.4	2729.4	2759.9	2790.5	2793.3	2791.9
10°	2750.2	2737.7	2718.3	2725.2	2758.6	2804.4	2844.7	2889.2	2922.5	2932.3	2929.5
12.5°	2840.5	2815.5	2798.9	2818.3	2871.1	2932.3	2971.2	3004.5	3028.2	3042.1	3036.5
15°	2932.3	2908.6	2889.2	2929.5	2993.4	3050.4	3069.8	3075.4	3079.6	3093.5	3090.7
17.5°	3021.2	2989.2	2982.3	3035.1	3096.2	3121.3	3110.1	3086.5	3068.5	3079.6	3078.2
20°	3100.4	3075.4	3072.6	3125.4	3149.1	3125.4	3078.2	3036.5	3004.5	3007.3	3005.9
22.5°	3175.5	3156.0	3158.8	3181.0	3143.5	3062.9	2985.1	2928.1	2893.4	2900.3	2904.5
25°	3258.8	3239.4	3246.3	3210.2	3086.5	2946.2	2833.6	2785.0	2771.1	2785.0	2794.7
27.5°	3367.2	3354.7	3350.6	3211.6	2985.1	2773.8	2646.0	2627.9	2640.4	2671.0	2686.3
30°	3484.0	3484.0	3461.7	3188.0	2846.1	2566.8	2455.6	2458.4	2501.5	2544.5	2559.8
32.5°	3596.5	3620.2	3550.7	3124.0	2666.8	2365.3	2280.5	2283.3	2320.8	2373.6	2387.5
35°	3689.7	3757.7	3627.1	3007.3	2455.6	2195.7	2131.8	2094.3	2095.7	2136.0	2147.1
37.5°	3817.5	3944.0	3671.6	2833.6	2230.5	2051.2	1978.9	1913.6	1870.5	1853.9	1853.9
40°	4039.9	4226.1	3682.7	2576.5	2017.8	1913.6	1810.8	1733.0	1649.6	1574.5	1560.6
42.5°	4416.5	4651.3	3660.5	2280.5	1826.1	1762.1	1662.1	1566.2	1450.8	1345.2	1336.9
45°	5083.5	5204.4	3600.7	1973.4	1655.1	1616.2	1518.9	1414.7	1292.4	1197.9	1191.0
47.5°	6152.2	5981.3	3521.5	1701.0	1499.5	1488.4	1413.3	1292.4	1170.1	1104.8	1097.9
50°	7712.8	7204.2	3510.4	1503.7	1374.4	1380.0	1318.8	1207.6	1100.6	1046.4	1038.1
52.5°	9591.7	8681.5	3584.0	1364.7	1264.6	1285.5	1254.9	1152.1	1057.6	1011.7	1003.4
55°	11415.0	10010.0	3628.5	1256.3	1161.8	1200.7	1204.9	1118.7	1032.5	986.7	981.1
57.5°	12895.0	11010.6	3431.2	1157.6	1072.8	1132.6	1163.2	1099.3	1020.0	985.3	979.7
60°	13924.8	11483.1	2869.7	1070.1	1007.5	1078.4	1147.9	1100.6	1050.6	1054.8	1057.6
62.5°	14252.8	11273.2	2152.6	1004.8	963.1	1060.3	1172.9	1157.6	1106.2	1138.2	1143.7
65°	13709.4	10406.1	1560.6	953.3	924.1	1072.8	1247.9	1199.3	1086.7	1110.4	1110.4
67.5°	11890.3	8964.9	1214.6	906.1	879.7	1096.5	1323.0	1195.1	1040.9	1068.7	1043.7
70°	9431.9	6934.6	1011.7	853.3	832.4	1061.7	1329.9	1152.1	986.7	992.2	945.0
72.5°	6259.2	4559.6	870.0	803.2	760.2	954.7	1273.0	1096.5	933.9	901.9	854.7
75°	3067.1	2273.5	758.8	740.7	665.7	831.0	1195.1	1043.7	876.9	826.9	800.5
77.5°	1188.2	967.2	647.6	661.5	579.5	732.4	1092.3	968.6	801.9	733.8	712.9
80°	576.7	548.9	530.9	551.7	476.7	624.0	997.8	903.3	732.4	657.3	626.8
82.5°	358.5	339.1	407.2	429.4	366.9	569.8	946.4	847.7	644.8	544.8	519.7
85°	182.1	194.6	272.4	293.2	262.7	453.0	779.6	636.5	465.5	386.3	389.1
87.5°	69.5	93.1	143.1	154.3	140.4	239.0	429.4	371.0	298.8	202.9	187.6
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)