

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: P522803

Luminaire Tested: **GALN-SA6B-727-U-T4W**

Issue Date: 5/13/2021

Test Information

Test Method: LM-79-08
Report Number: P522803
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-SA6B-727-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 2700K, 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: 28239 lumens
Efficiency: N/A
Efficacy: 116.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

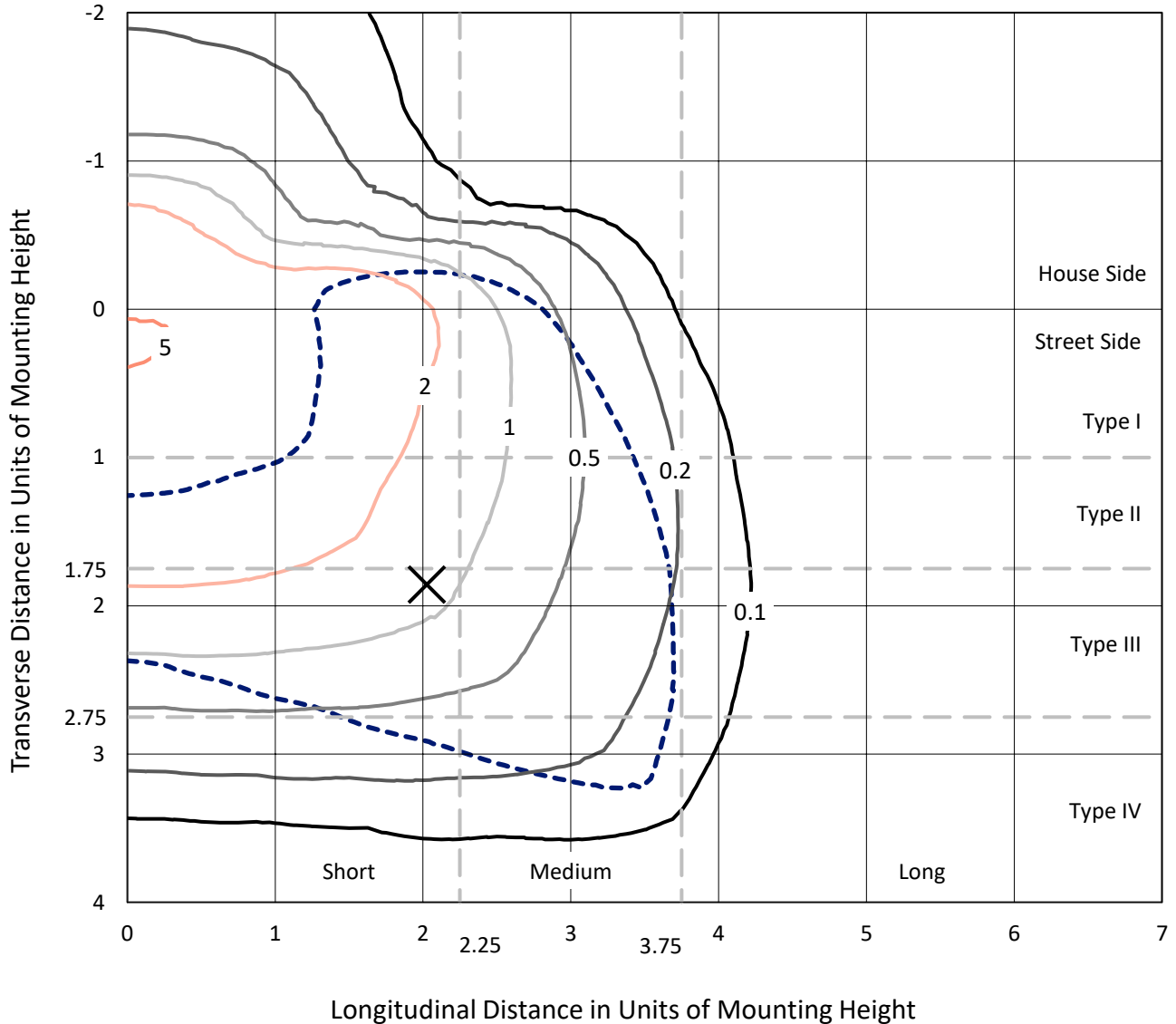
Input Watts (W): 243
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

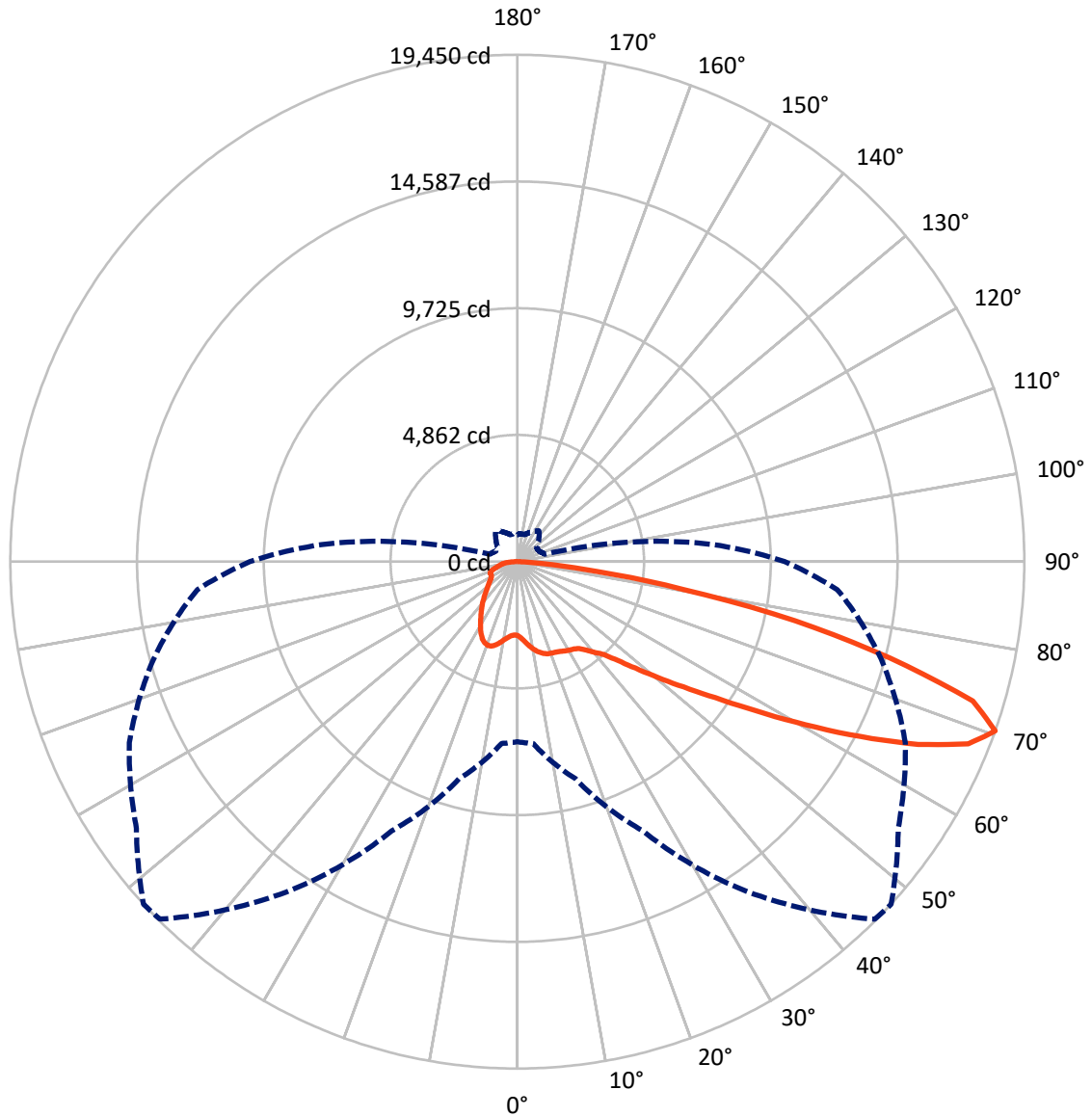
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.7 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	6393.9	0.0	6393.9
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	21845.1	0.0	21845.1
	% Fixture	77.4	0.0	77.4
Total	Lumens	28239.0	0.0	28239.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	292.2	1.0
10°-20°	976.9	3.5
20°-30°	1624.6	5.8
30°-40°	2302.6	8.2
40°-50°	3399.1	12.0
50°-60°	5887.4	20.8
60°-70°	8316.1	29.4
70°-80°	4780.5	16.9
80°-90°	659.6	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°	28239.0	100.0
0°-180°	28239.0	100.0

Coefficient of Utilization



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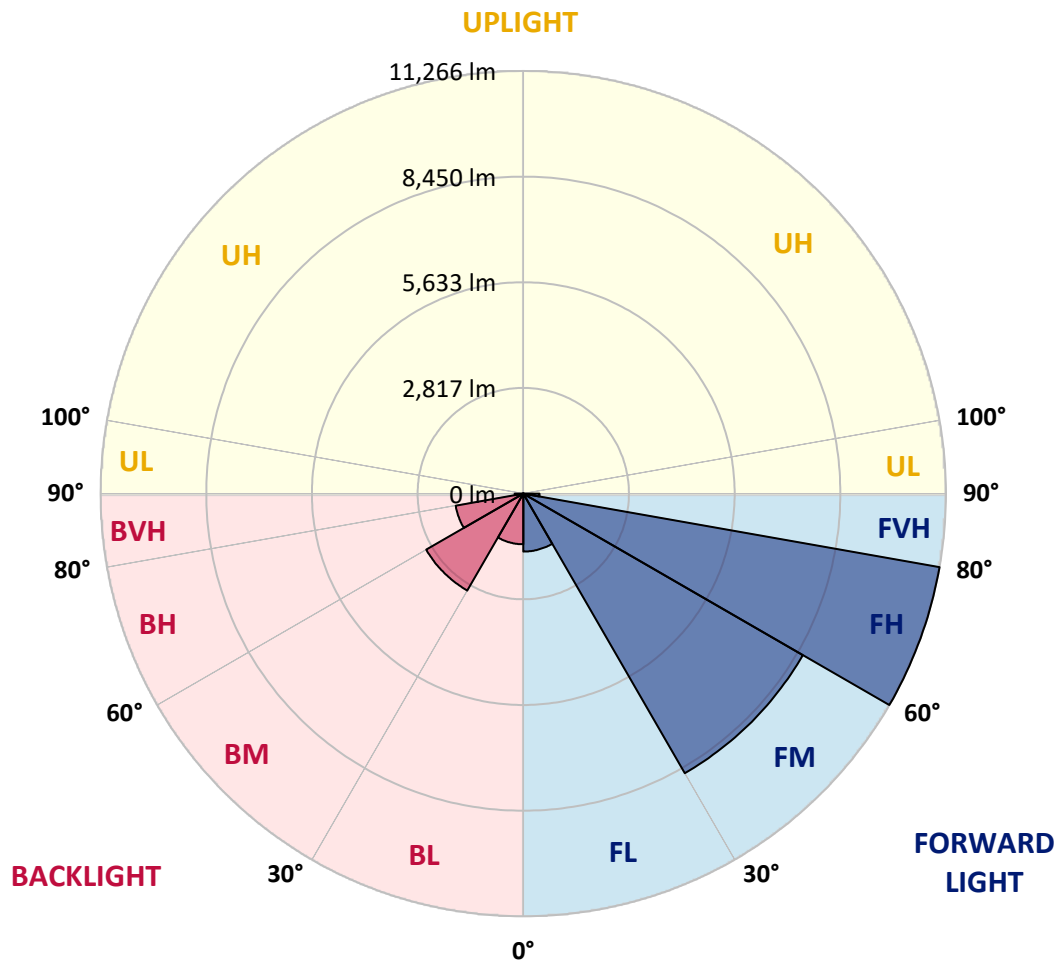
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1544.2	5.5			
FM	(30°-60°)	8603.9	30.5			
FH	(60°-80°)	11266.2	39.9			G4/12000
FVH	(80°-90°)	430.9	1.5			G3/500
BL	(0°-30°)	1349.5	4.8	B3/2500		
BM	(30°-60°)	2985.2	10.6	B3/5000		
BH	(60°-80°)	1830.5	6.5	B3/2500		G3/2500
BVH	(80°-90°)	228.7	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°	2834.9	2834.9	2834.9	2834.9	2834.9	2834.9	2834.9	2834.9	2834.9	2834.9	2834.9
2.5°	3017.7	3007.1	3005.6	2982.9	2970.9	2948.2	2939.1	2918.0	2892.3	2866.6	2842.4
5°	3254.9	3254.9	3244.4	3212.6	3162.8	3111.4	3088.7	3047.9	2975.4	2916.5	2866.6
7.5°	3498.2	3501.3	3480.1	3433.3	3362.2	3279.1	3258.0	3197.5	3094.8	3008.6	2934.6
10°	3708.3	3708.3	3679.6	3616.1	3526.9	3436.3	3415.1	3347.1	3232.3	3125.0	3028.3
12.5°	3868.5	3868.5	3830.7	3747.6	3650.9	3569.3	3545.1	3480.1	3372.8	3253.4	3131.0
15°	3972.7	3965.2	3922.9	3829.2	3735.5	3664.5	3647.8	3593.4	3495.2	3374.3	3236.8
17.5°	3977.3	3974.2	3933.4	3854.9	3773.3	3724.9	3714.3	3678.1	3601.0	3486.1	3341.1
20°	3889.6	3895.7	3868.5	3812.5	3773.3	3752.1	3747.6	3735.5	3681.1	3573.8	3428.7
22.5°	3795.9	3806.5	3780.8	3750.6	3747.6	3768.7	3771.7	3774.8	3740.0	3635.7	3502.8
25°	3773.3	3780.8	3755.1	3727.9	3744.5	3800.5	3812.5	3824.6	3797.4	3709.8	3590.4
27.5°	3888.1	3882.1	3832.2	3773.3	3783.8	3859.4	3876.0	3889.6	3876.0	3800.5	3699.2
30°	4213.0	4193.4	4093.6	3921.3	3866.9	3919.8	3936.5	3974.2	3974.2	3918.3	3817.1
32.5°	4757.0	4719.2	4536.4	4197.9	4009.0	3977.3	3993.9	4055.8	4087.6	4043.7	3933.4
35°	5417.4	5378.1	5116.6	4661.8	4268.9	4092.1	4087.6	4157.1	4241.7	4143.5	3999.9
37.5°	6080.7	6039.9	5725.6	5214.9	4648.2	4333.9	4306.7	4330.9	4367.1	4187.3	4092.1
40°	6744.1	6695.8	6420.7	5832.9	5112.1	4654.2	4583.2	4474.4	4459.3	4330.9	4270.4
42.5°	7401.5	7357.6	7218.6	6526.5	5668.2	4967.0	4858.2	4670.9	4728.3	4651.2	4598.3
45°	8064.8	8067.9	7919.8	7304.7	6339.1	5544.3	5397.7	5104.6	5240.6	5211.8	5242.1
47.5°	8652.7	8645.1	8592.2	8060.3	7171.8	6287.8	6098.9	5758.9	5991.6	6097.4	6328.6
50°	9222.3	9217.8	9220.8	8917.1	8138.9	7171.8	6963.2	6606.6	7131.0	7498.2	7912.2
52.5°	10038.4	10064.0	9881.2	9801.1	9314.5	8215.9	7986.3	7617.5	8477.4	9056.1	9864.6
55°	10857.4	10836.2	10692.7	10775.8	10544.6	9452.0	9211.8	8918.6	9976.4	10609.6	11824.5
57.5°	11339.4	11347.0	11493.6	11900.0	12063.2	10993.4	10775.8	10549.1	11661.3	12110.1	13568.3
60°	11773.1	11807.9	12229.5	12997.1	13439.9	12886.8	12693.4	12472.8	13207.2	13385.5	15082.5
62.5°	11909.1	12016.4	12752.3	13900.8	14781.7	15023.5	14783.3	14296.7	14679.0	14609.5	16108.5
65°	11230.6	11377.2	12696.4	14239.3	15980.1	17051.4	16898.8	15995.2	15933.2	15514.6	16276.2
67.5°	9444.5	9591.1	11285.0	13529.0	16475.7	18807.4	18654.7	17234.3	16694.8	15599.3	15006.9
70°	6910.3	7002.5	8622.4	11390.8	15479.9	19396.7	19449.6	17838.7	16422.8	14449.3	12321.6
72.5°	3981.8	4185.8	5320.6	8013.5	12646.5	17906.7	18273.9	16581.5	14703.2	12054.2	8614.9
75°	1712.1	1716.6	2460.1	4420.0	8565.0	14393.4	14748.5	13745.1	11546.4	8335.3	4599.8
77.5°	814.5	829.6	1082.0	1973.5	4714.7	9944.7	10902.7	9710.4	7384.8	4004.5	1737.8
80°	528.9	539.5	661.9	979.2	2312.0	5766.4	6434.3	5601.7	3258.0	1431.0	749.5
82.5°	320.4	323.4	442.8	598.4	1272.4	2611.2	3078.1	2431.4	1390.2	856.8	441.2
85°	194.9	196.4	269.0	370.2	772.2	902.1	926.3	918.8	816.0	560.6	235.7
87.5°	93.7	96.7	139.0	175.3	303.7	279.6	264.4	306.8	385.3	302.2	101.2
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°	2834.9	2834.9	2834.9	2834.9	2834.9	2834.9	2834.9	2834.9	2834.9	2834.9	2834.9
2.5°	2831.8	2827.3	2816.7	2812.2	2809.2	2810.7	2809.2	2809.2	2810.7	2810.7	2810.7
5°	2845.4	2837.9	2821.3	2821.3	2830.3	2851.5	2871.1	2886.2	2902.9	2901.3	2901.3
7.5°	2904.4	2890.8	2871.1	2877.2	2899.8	2933.1	2967.8	3001.1	3034.3	3037.3	3035.8
10°	2990.5	2976.9	2955.7	2963.3	2999.6	3049.4	3093.3	3141.6	3177.9	3188.5	3185.4
12.5°	3088.7	3061.5	3043.4	3064.5	3122.0	3188.5	3230.8	3267.0	3292.7	3307.8	3301.8
15°	3188.5	3162.8	3141.6	3185.4	3254.9	3316.9	3338.1	3344.1	3348.6	3363.7	3360.7
17.5°	3285.2	3250.4	3242.9	3300.3	3366.8	3394.0	3381.9	3356.2	3336.5	3348.6	3347.1
20°	3371.3	3344.1	3341.1	3398.5	3424.2	3398.5	3347.1	3301.8	3267.0	3270.1	3268.5
22.5°	3452.9	3431.7	3434.8	3458.9	3418.1	3330.5	3245.9	3183.9	3146.1	3153.7	3158.2
25°	3543.6	3522.4	3530.0	3490.7	3356.2	3203.6	3081.2	3028.3	3013.2	3028.3	3038.9
27.5°	3661.4	3647.8	3643.3	3492.2	3245.9	3016.2	2877.2	2857.5	2871.1	2904.4	2921.0
30°	3788.4	3788.4	3764.2	3466.5	3094.8	2791.0	2670.1	2673.2	2720.0	2766.9	2783.5
32.5°	3910.8	3936.5	3860.9	3397.0	2899.8	2571.9	2479.7	2482.8	2523.6	2581.0	2596.1
35°	4012.0	4086.1	3944.0	3270.1	2670.1	2387.6	2318.1	2277.3	2278.8	2322.6	2334.7
37.5°	4151.0	4288.6	3992.4	3081.2	2425.3	2230.4	2151.8	2080.8	2034.0	2015.8	2015.8
40°	4392.8	4595.3	4004.5	2801.6	2194.1	2080.8	1969.0	1884.4	1793.7	1712.1	1697.0
42.5°	4802.3	5057.7	3980.3	2479.7	1985.6	1916.1	1807.3	1703.0	1577.6	1462.8	1453.7
45°	5527.7	5659.1	3915.3	2145.8	1799.7	1757.4	1651.7	1538.3	1405.3	1302.6	1295.0
47.5°	6689.7	6503.8	3829.2	1849.6	1630.5	1618.4	1536.8	1405.3	1272.4	1201.3	1193.8
50°	8386.7	7833.6	3817.1	1635.0	1494.5	1500.5	1434.1	1313.2	1196.8	1137.9	1128.8
52.5°	10429.7	9439.9	3897.2	1483.9	1375.1	1397.8	1364.5	1252.7	1150.0	1100.1	1091.0
55°	12412.3	10884.6	3945.5	1366.0	1263.3	1305.6	1310.1	1216.4	1122.8	1072.9	1066.8
57.5°	14021.7	11972.6	3730.9	1258.8	1166.6	1231.6	1264.8	1195.3	1109.2	1071.4	1065.3
60°	15141.4	12486.4	3120.5	1163.6	1095.6	1172.6	1248.2	1196.8	1142.4	1146.9	1150.0
62.5°	15498.0	12258.2	2340.7	1092.5	1047.2	1153.0	1275.4	1258.8	1202.8	1237.6	1243.6
65°	14907.2	11315.2	1697.0	1036.6	1004.9	1166.6	1357.0	1304.1	1181.7	1207.4	1207.4
67.5°	12929.1	9748.2	1320.7	985.2	956.5	1192.3	1438.6	1299.6	1131.8	1162.0	1134.8
70°	10256.0	7540.5	1100.1	927.8	905.2	1154.5	1446.1	1252.7	1072.9	1078.9	1027.6
72.5°	6806.1	4958.0	946.0	873.4	826.6	1038.1	1384.2	1192.3	1015.5	980.7	929.3
75°	3335.0	2472.2	825.1	805.4	723.8	903.6	1299.6	1134.8	953.5	899.1	870.4
77.5°	1292.0	1051.7	704.2	719.3	630.1	796.4	1187.7	1053.2	871.9	797.9	775.2
80°	627.1	596.9	577.2	599.9	518.3	678.5	1085.0	982.2	796.4	714.8	681.5
82.5°	389.9	368.7	442.8	466.9	398.9	619.6	1029.1	921.8	701.2	592.4	565.2
85°	198.0	211.6	296.2	318.8	285.6	492.6	847.7	692.1	506.2	420.1	423.1
87.5°	75.6	101.2	155.6	167.7	152.6	259.9	466.9	403.5	324.9	220.6	204.0
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)