

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: P522783

Luminaire Tested: **GALN-SA5C-830-U-T4W**

Issue Date: 5/13/2021

Test Information

Test Method: LM-79-08
Report Number: P522783
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-830-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 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: 27998 lumens
Efficiency: N/A
Efficacy: 104.1 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): 269
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



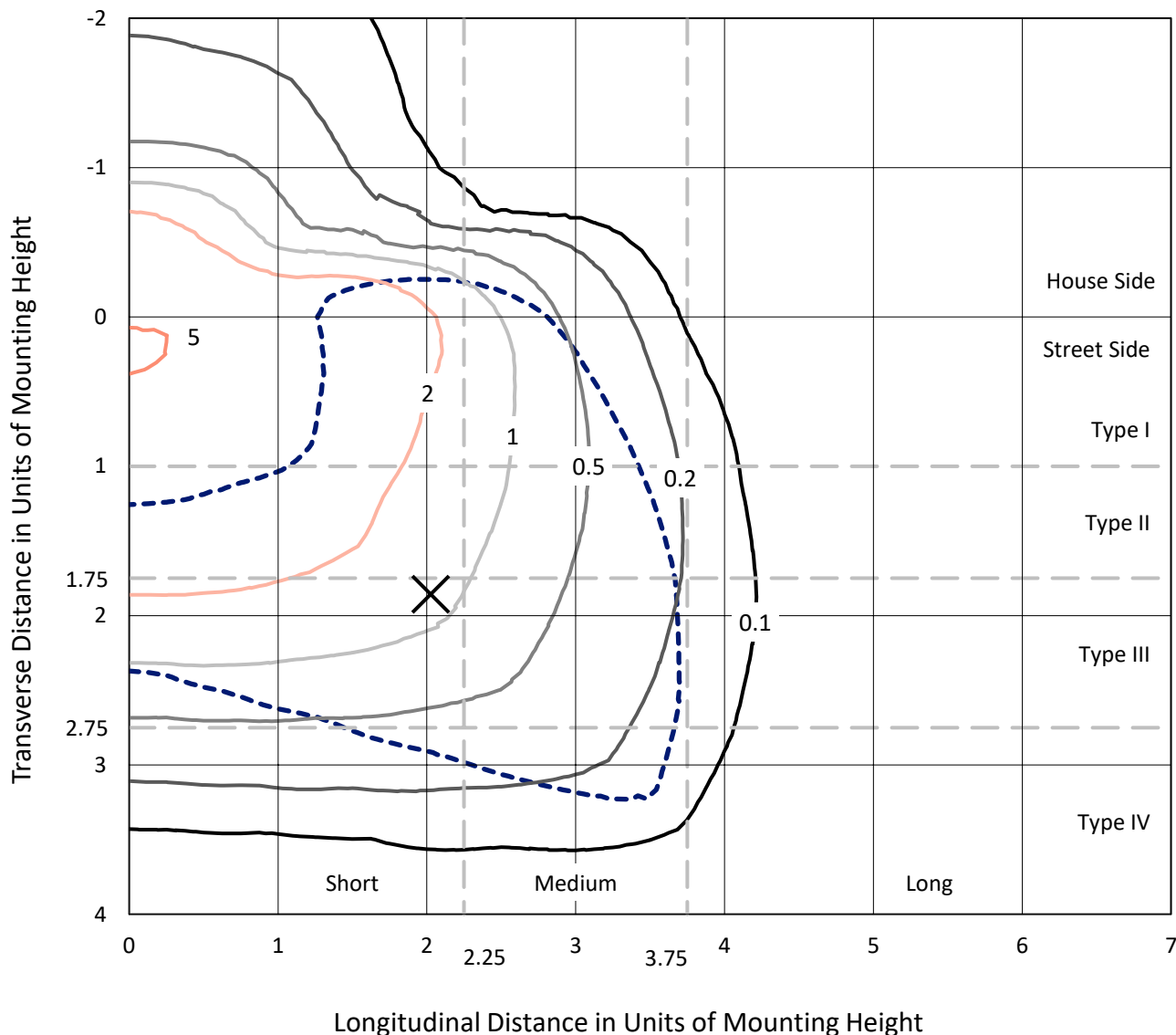
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

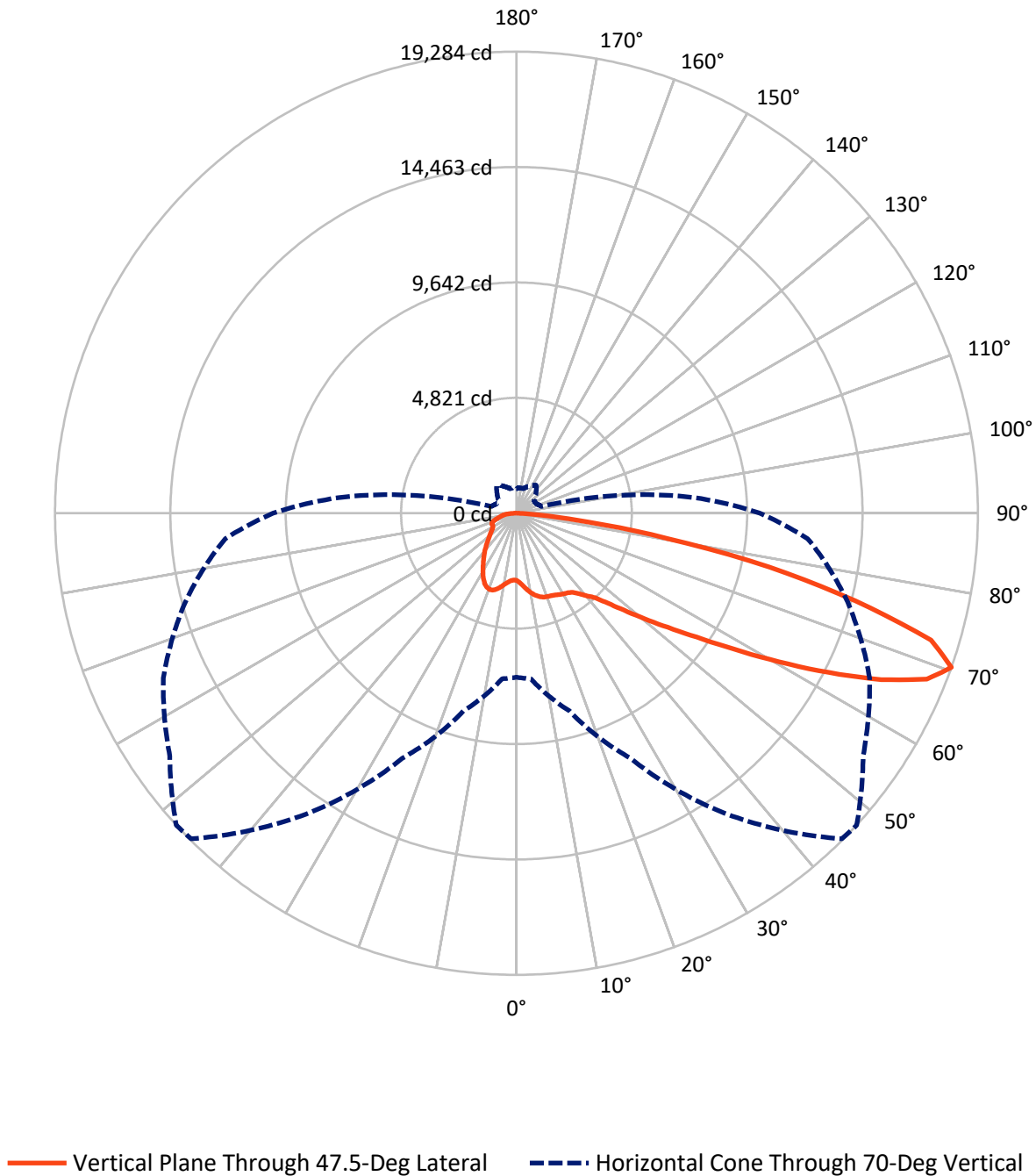


Based on 25 foot mounting height. Maximum calculated value = 5.7 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6339.3	0.0	6339.3
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	21658.7	0.0	21658.7
	% Fixture	77.4	0.0	77.4
Total	Lumens	27998.0	0.0	27998.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	289.7	1.0
10°-20°	968.6	3.5
20°-30°	1610.7	5.8
30°-40°	2282.9	8.2
40°-50°	3370.1	12.0
50°-60°	5837.1	20.8
60°-70°	8245.1	29.4
70°-80°	4739.8	16.9
80°-90°	654.0	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°	27998.0	100.0
0°-180°	27998.0	100.0

Coefficient of Utilization



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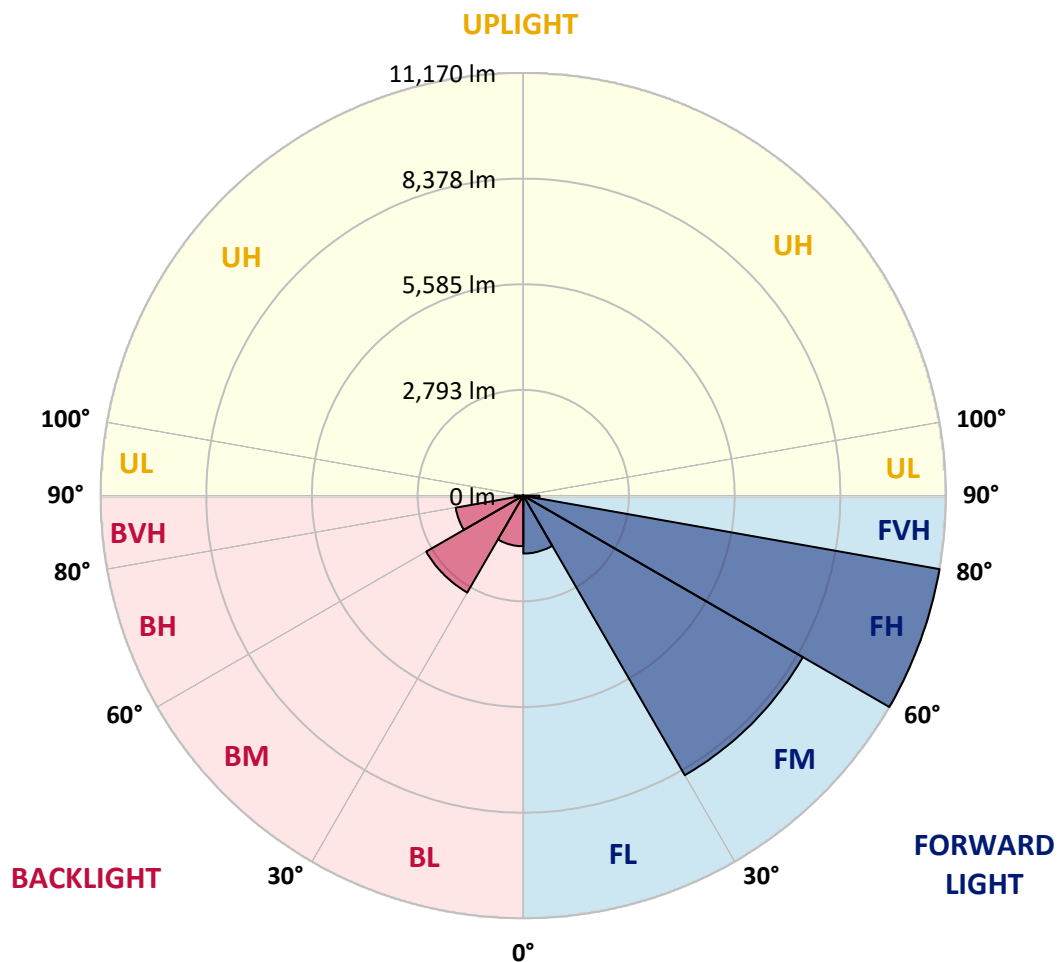
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1531.0	5.5			
FM	(30°-60°)	8530.4	30.5			
FH	(60°-80°)	11170.0	39.9			G4/12000
FVH	(80°-90°)	427.2	1.5			G3/500
BL	(0°-30°)	1338.0	4.8	B3/2500		
BM	(30°-60°)	2959.7	10.6	B3/5000		
BH	(60°-80°)	1814.9	6.5	B3/2500		G3/2500
BVH	(80°-90°)	226.8	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°	2810.7	2810.7	2810.7	2810.7	2810.7	2810.7	2810.7	2810.7	2810.7	2810.7	2810.7
2.5°	2991.9	2981.5	2980.0	2957.5	2945.5	2923.0	2914.0	2893.1	2867.6	2842.1	2818.2
5°	3227.2	3227.2	3216.7	3185.2	3135.8	3084.8	3062.4	3021.9	2950.0	2891.6	2842.1
7.5°	3468.4	3471.4	3450.4	3404.0	3333.5	3251.1	3230.2	3170.2	3068.4	2983.0	2909.5
10°	3676.6	3676.6	3648.2	3585.2	3496.8	3407.0	3386.0	3318.6	3204.7	3098.3	3002.4
12.5°	3835.4	3835.4	3798.0	3715.6	3619.7	3538.8	3514.8	3450.4	3344.0	3225.7	3104.3
15°	3938.8	3931.3	3889.4	3796.5	3703.6	3633.2	3616.7	3562.8	3465.4	3345.5	3209.2
17.5°	3943.3	3940.3	3899.9	3822.0	3741.1	3693.1	3682.6	3646.7	3570.3	3456.4	3312.6
20°	3856.4	3862.4	3835.4	3780.0	3741.1	3720.1	3715.6	3703.6	3649.7	3543.3	3399.5
22.5°	3763.5	3774.0	3748.5	3718.6	3715.6	3736.6	3739.6	3742.6	3708.1	3604.7	3472.9
25°	3741.1	3748.5	3723.1	3696.1	3712.6	3768.0	3780.0	3792.0	3765.0	3678.1	3559.8
27.5°	3854.9	3848.9	3799.5	3741.1	3751.5	3826.5	3842.9	3856.4	3842.9	3768.0	3667.6
30°	4177.0	4157.6	4058.7	3887.9	3833.9	3886.4	3902.9	3940.3	3940.3	3884.9	3784.5
32.5°	4716.4	4678.9	4497.7	4162.1	3974.8	3943.3	3959.8	4021.2	4052.7	4009.2	3899.9
35°	5371.1	5332.2	5073.0	4622.0	4232.5	4057.2	4052.7	4121.6	4205.5	4108.1	3965.8
37.5°	6028.8	5988.4	5676.8	5170.4	4608.5	4296.9	4269.9	4293.9	4329.9	4151.6	4057.2
40°	6686.6	6638.6	6365.9	5783.1	5068.5	4614.5	4544.1	4436.2	4421.2	4293.9	4234.0
42.5°	7338.3	7294.8	7157.0	6470.8	5619.8	4924.7	4816.8	4631.0	4687.9	4611.5	4559.1
45°	7996.0	7999.0	7852.2	7242.4	6285.0	5497.0	5351.6	5061.0	5195.8	5167.4	5197.3
47.5°	8578.8	8571.3	8518.9	7991.5	7110.6	6234.1	6046.8	5709.7	5940.4	6045.3	6274.5
50°	9143.6	9139.1	9142.1	8841.0	8069.4	7110.6	6903.8	6550.2	7070.1	7434.2	7844.7
52.5°	9952.7	9978.2	9796.9	9717.5	9235.0	8145.8	7918.1	7552.5	8405.0	8978.8	9780.4
55°	10764.7	10743.7	10601.4	10683.8	10454.6	9371.4	9133.2	8842.5	9891.3	10519.0	11723.6
57.5°	11242.6	11250.1	11395.5	11798.5	11960.3	10899.6	10683.8	10459.1	11561.8	12006.7	13452.5
60°	11672.6	11707.1	12125.1	12886.2	13325.2	12776.8	12585.1	12366.3	13094.5	13271.2	14953.7
62.5°	11807.5	11913.9	12643.5	13782.1	14655.6	14895.3	14657.1	14174.7	14553.7	14484.8	15971.0
65°	11134.8	11280.1	12588.1	14117.7	15843.7	16905.9	16754.6	15858.7	15797.2	15382.2	16137.3
67.5°	9363.9	9509.2	11188.7	13413.6	16335.1	18646.9	18495.5	17087.2	16552.3	15466.1	14878.8
70°	6851.4	6942.8	8548.8	11293.6	15347.8	19231.2	19283.6	17686.5	16282.7	14326.0	12216.5
72.5°	3947.8	4150.1	5275.2	7945.1	12538.6	17753.9	18118.0	16440.0	14577.7	11951.3	8541.4
75°	1697.5	1702.0	2439.1	4382.3	8491.9	14270.6	14622.6	13627.8	11447.9	8264.2	4560.6
77.5°	807.5	822.5	1072.7	1956.7	4674.4	9859.8	10809.7	9627.6	7321.8	3970.3	1723.0
80°	524.4	534.9	656.2	970.8	2292.3	5717.2	6379.4	5553.9	3230.2	1418.8	743.1
82.5°	317.6	320.6	439.0	593.3	1261.5	2588.9	3051.9	2410.6	1378.4	849.5	437.5
85°	193.3	194.8	266.7	367.1	765.6	894.4	918.4	910.9	809.0	555.8	233.7
87.5°	92.9	95.9	137.8	173.8	301.1	277.2	262.2	304.1	382.0	299.6	100.4
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°	2810.7	2810.7	2810.7	2810.7	2810.7	2810.7	2810.7	2810.7	2810.7	2810.7	2810.7
2.5°	2807.7	2803.2	2792.7	2788.2	2785.2	2786.7	2785.2	2785.2	2786.7	2786.7	2786.7
5°	2821.1	2813.7	2797.2	2797.2	2806.2	2827.1	2846.6	2861.6	2878.1	2876.6	2876.6
7.5°	2879.6	2866.1	2846.6	2852.6	2875.1	2908.0	2942.5	2975.5	3008.4	3011.4	3009.9
10°	2965.0	2951.5	2930.5	2938.0	2974.0	3023.4	3066.9	3114.8	3150.8	3161.2	3158.2
12.5°	3062.4	3035.4	3017.4	3038.4	3095.3	3161.2	3203.2	3239.2	3264.6	3279.6	3273.6
15°	3161.2	3135.8	3114.8	3158.2	3227.2	3288.6	3309.6	3315.6	3320.1	3335.0	3332.0
17.5°	3257.1	3222.7	3215.2	3272.1	3338.0	3365.0	3353.0	3327.5	3308.1	3320.1	3318.6
20°	3342.5	3315.6	3312.6	3369.5	3395.0	3369.5	3318.6	3273.6	3239.2	3242.1	3240.7
22.5°	3423.4	3402.5	3405.5	3429.4	3389.0	3302.1	3218.2	3156.8	3119.3	3126.8	3131.3
25°	3513.3	3492.4	3499.8	3460.9	3327.5	3176.2	3054.9	3002.4	2987.5	3002.4	3012.9
27.5°	3630.2	3616.7	3612.2	3462.4	3218.2	2990.4	2852.6	2833.1	2846.6	2879.6	2896.1
30°	3756.0	3756.0	3732.1	3436.9	3068.4	2767.2	2647.4	2650.4	2696.8	2743.2	2759.7
32.5°	3877.4	3902.9	3828.0	3368.0	2875.1	2550.0	2458.6	2461.6	2502.0	2559.0	2573.9
35°	3977.8	4051.2	3910.4	3242.1	2647.4	2367.2	2298.3	2257.8	2259.3	2302.8	2314.8
37.5°	4115.6	4252.0	3958.3	3054.9	2404.6	2211.4	2133.5	2063.1	2016.6	1998.6	1998.6
40°	4355.3	4556.1	3970.3	2777.7	2175.4	2063.1	1952.2	1868.3	1778.4	1697.5	1682.5
42.5°	4761.3	5014.5	3946.3	2458.6	1968.7	1899.7	1791.9	1688.5	1564.1	1450.3	1441.3
45°	5480.5	5610.8	3881.9	2127.5	1784.4	1742.4	1637.6	1525.2	1393.3	1291.5	1284.0
47.5°	6632.6	6448.3	3796.5	1833.8	1616.6	1604.6	1523.7	1393.3	1261.5	1191.1	1183.6
50°	8315.1	7766.8	3784.5	1621.1	1481.7	1487.7	1421.8	1302.0	1186.6	1128.2	1119.2
52.5°	10340.7	9359.4	3863.9	1471.3	1363.4	1385.9	1352.9	1242.0	1140.1	1090.7	1081.7
55°	12306.4	10791.7	3911.9	1354.4	1252.5	1294.5	1299.0	1206.1	1113.2	1063.7	1057.7
57.5°	13902.0	11870.4	3699.1	1248.0	1156.6	1221.0	1254.0	1185.1	1099.7	1062.2	1056.2
60°	15012.2	12379.8	3093.8	1153.6	1086.2	1162.6	1237.5	1186.6	1132.7	1137.1	1140.1
62.5°	15365.8	12153.6	2320.7	1083.2	1038.3	1143.1	1264.5	1248.0	1192.6	1227.0	1233.0
65°	14779.9	11218.7	1682.5	1027.8	996.3	1156.6	1345.4	1293.0	1171.6	1197.1	1197.1
67.5°	12818.8	9665.0	1309.4	976.8	948.4	1182.1	1426.3	1288.5	1122.2	1152.1	1125.2
70°	10168.4	7476.1	1090.7	919.9	897.4	1144.6	1433.8	1242.0	1063.7	1069.7	1018.8
72.5°	6748.0	4915.7	937.9	866.0	819.5	1029.3	1372.4	1182.1	1006.8	972.3	921.4
75°	3306.6	2451.1	818.0	798.6	717.6	895.9	1288.5	1125.2	945.4	891.4	863.0
77.5°	1281.0	1042.8	698.2	713.2	624.8	789.6	1177.6	1044.3	864.5	791.1	768.6
80°	621.8	591.8	572.3	594.8	513.9	672.7	1075.7	973.8	789.6	708.7	675.7
82.5°	386.5	365.6	439.0	463.0	395.5	614.3	1020.3	913.9	695.2	587.3	560.3
85°	196.3	209.8	293.7	316.1	283.2	488.4	840.5	686.2	501.9	416.5	419.5
87.5°	74.9	100.4	154.3	166.3	151.3	257.7	463.0	400.0	322.1	218.7	202.3
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)