

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: P522873

Luminaire Tested: **GALN-SA8A-830-U-T4W**

Issue Date: 5/13/2021

Test Information

Test Method: LM-79-08
Report Number: P522873
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-SA8A-830-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29366 lumens
Efficiency: N/A
Efficacy: 120.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 244
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

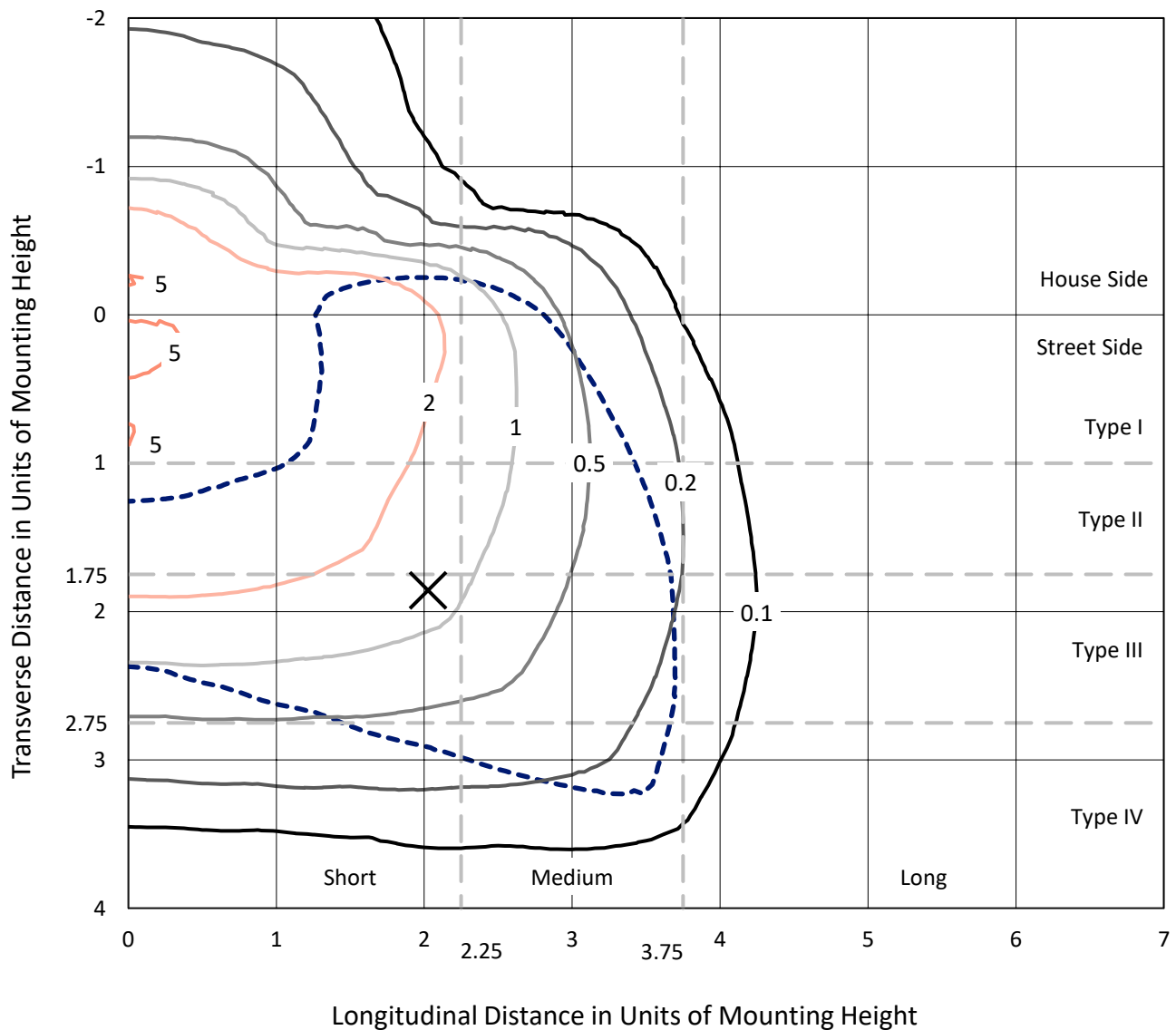


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

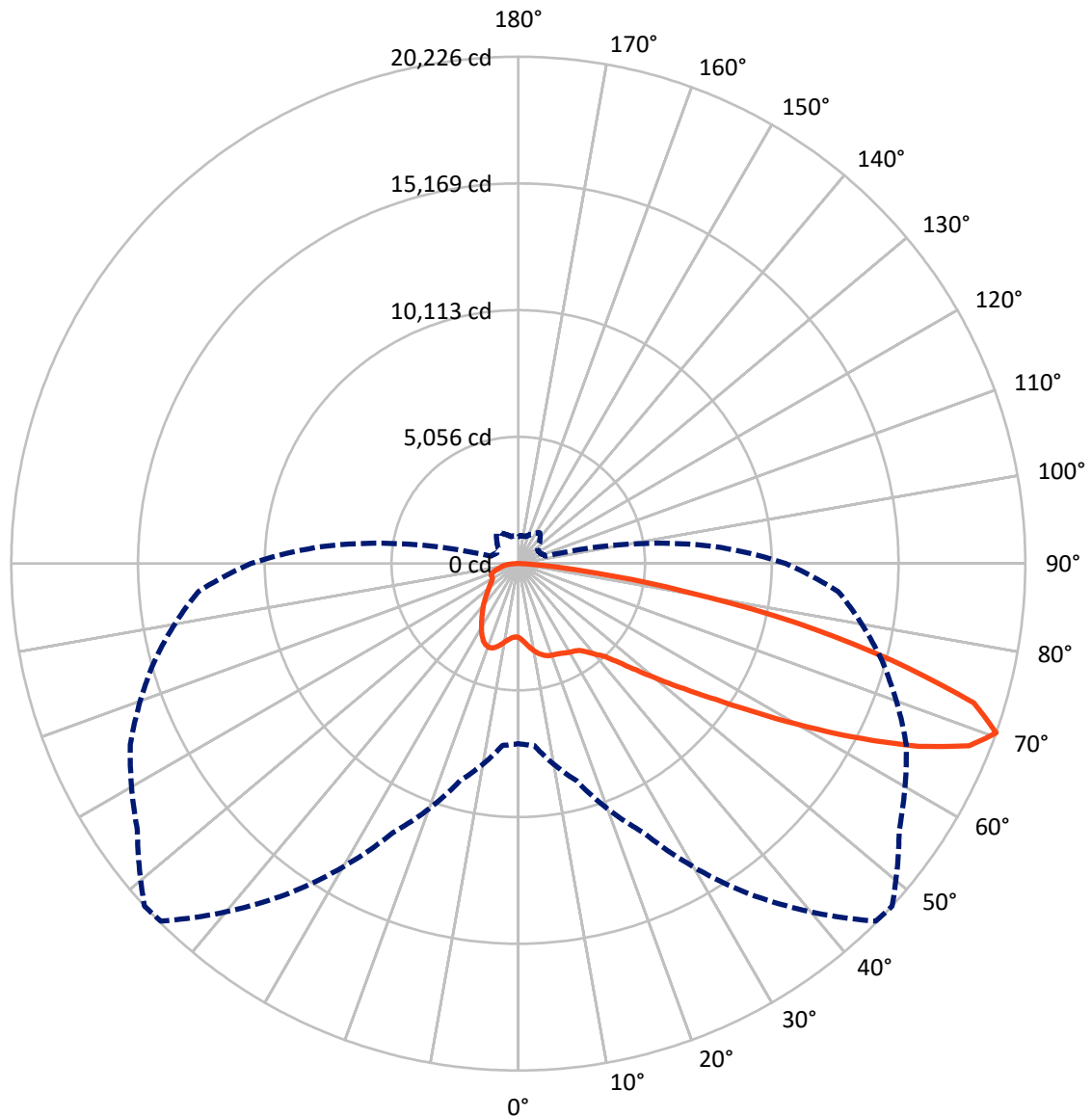


Based on 25 foot mounting height. Maximum calculated value = 6 fc
 Type IV - Short - N/A

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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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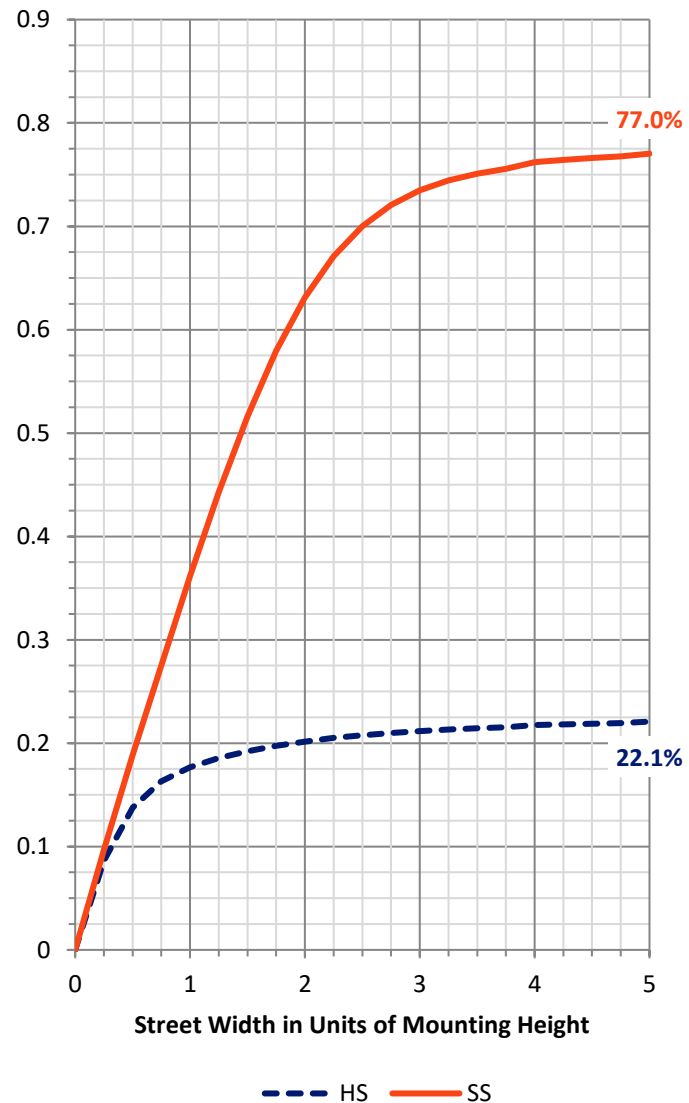
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6649.0	0.0	6649.0
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	22717.0	0.0	22717.0
	% Fixture	77.4	0.0	77.4
Total	Lumens	29366.0	0.0	29366.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	303.9	1.0
10°-20°	1015.9	3.5
20°-30°	1689.4	5.8
30°-40°	2394.5	8.2
40°-50°	3534.8	12.0
50°-60°	6122.3	20.8
60°-70°	8648.0	29.4
70°-80°	4971.3	16.9
80°-90°	685.9	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°	29366.0	100.0
0°-180°	29366.0	100.0

Coefficient of Utilization



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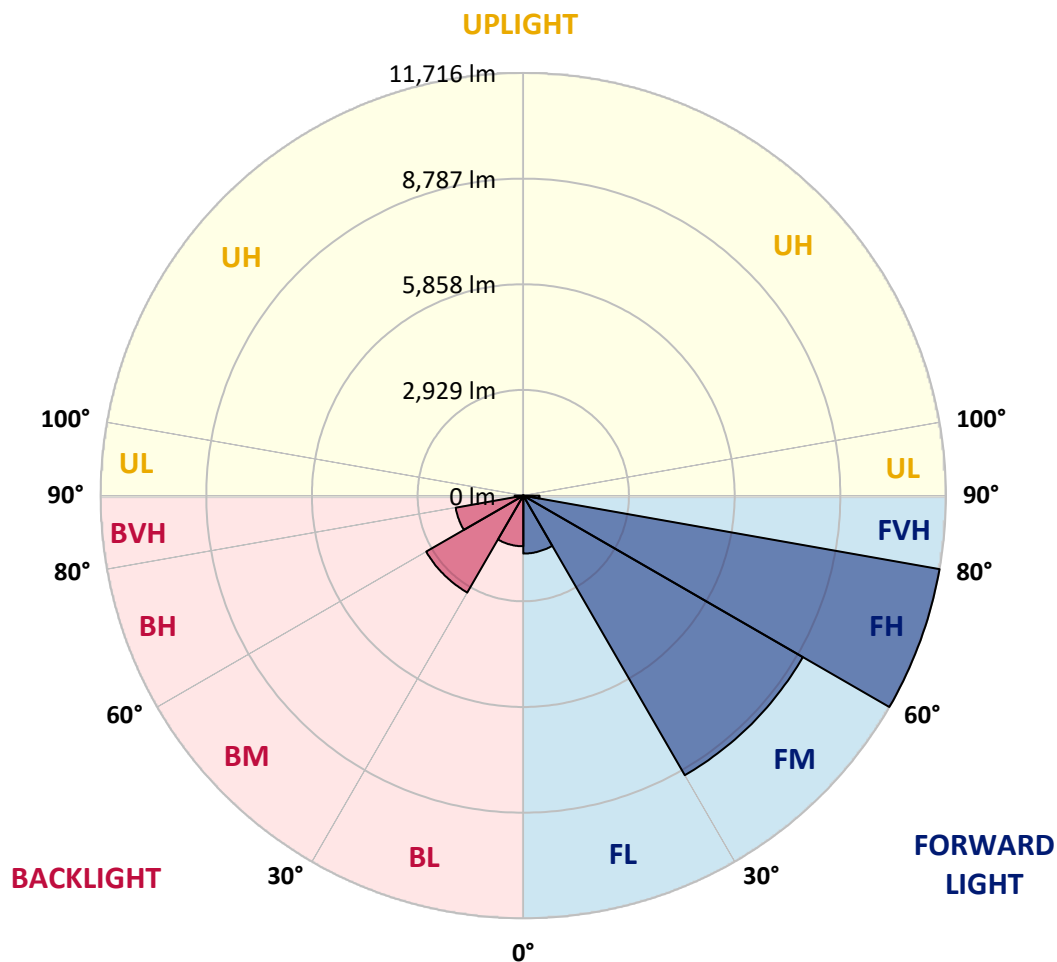
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1605.8	5.5			
FM	(30°-60°)	8947.3	30.5			
FH	(60°-80°)	11715.8	39.9			G4/12000
FVH	(80°-90°)	448.1	1.5			G3/500
BL	(0°-30°)	1403.3	4.8	B3/2500		
BM	(30°-60°)	3104.3	10.6	B3/5000		
BH	(60°-80°)	1903.5	6.5	B3/2500		G3/2500
BVH	(80°-90°)	237.9	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°	2948.0	2948.0	2948.0	2948.0	2948.0	2948.0	2948.0	2948.0	2948.0	2948.0	2948.0
2.5°	3138.1	3127.1	3125.6	3102.0	3089.4	3065.8	3056.4	3034.4	3007.7	2981.0	2955.9
5°	3384.8	3384.8	3373.8	3340.8	3289.0	3235.6	3212.0	3169.6	3094.1	3032.8	2981.0
7.5°	3637.8	3641.0	3619.0	3570.3	3496.4	3410.0	3388.0	3325.1	3218.3	3128.7	3051.7
10°	3856.3	3856.3	3826.4	3760.4	3667.7	3573.4	3551.4	3480.7	3361.3	3249.7	3149.1
12.5°	4022.8	4022.8	3983.6	3897.1	3796.6	3711.7	3686.6	3619.0	3507.4	3383.3	3256.0
15°	4131.3	4123.4	4079.4	3982.0	3884.6	3810.7	3793.4	3736.8	3634.7	3509.0	3366.0
17.5°	4136.0	4132.8	4090.4	4008.7	3923.8	3873.6	3862.6	3824.8	3744.7	3625.3	3474.4
20°	4044.8	4051.1	4022.8	3964.7	3923.8	3901.8	3897.1	3884.6	3828.0	3716.4	3565.6
22.5°	3947.4	3958.4	3931.7	3900.3	3897.1	3919.1	3922.3	3925.4	3889.3	3780.8	3642.6
25°	3923.8	3931.7	3905.0	3876.7	3894.0	3952.1	3964.7	3977.3	3949.0	3857.8	3733.7
27.5°	4043.3	4037.0	3985.1	3923.8	3934.8	4013.4	4030.7	4044.8	4030.7	3952.1	3846.8
30°	4381.1	4360.7	4257.0	4077.8	4021.3	4076.3	4093.6	4132.8	4132.8	4074.7	3969.4
32.5°	4946.8	4907.6	4717.4	4365.4	4169.0	4136.0	4153.3	4217.7	4250.7	4205.1	4090.4
35°	5633.6	5592.7	5320.8	4847.8	4439.3	4255.4	4250.7	4323.0	4411.0	4308.8	4159.6
37.5°	6323.4	6281.0	5954.1	5423.0	4833.7	4506.8	4478.6	4503.7	4541.4	4354.4	4255.4
40°	7013.3	6963.0	6677.0	6065.7	5316.1	4840.0	4766.1	4653.0	4637.3	4503.7	4440.8
42.5°	7696.8	7651.3	7506.7	6787.0	5894.4	5165.3	5052.1	4857.3	4917.0	4836.8	4781.8
45°	8386.7	8389.8	8235.8	7596.3	6592.1	5765.6	5613.1	5308.3	5449.7	5419.8	5451.3
47.5°	8998.0	8990.1	8935.1	8382.0	7458.0	6538.7	6342.3	5988.7	6230.7	6340.7	6581.1
50°	9590.4	9585.7	9588.8	9273.0	8463.7	7458.0	7241.1	6870.3	7415.6	7797.4	8228.0
52.5°	10439.0	10465.7	10275.5	10192.3	9686.3	8543.8	8305.0	7921.6	8815.7	9417.5	10258.3
55°	11290.7	11268.7	11119.4	11205.8	10965.4	9829.3	9579.4	9274.5	10374.5	11033.0	12296.4
57.5°	11792.0	11799.8	11952.3	12375.0	12544.7	11432.1	11205.8	10970.1	12126.7	12593.4	14109.8
60°	12243.0	12279.1	12717.5	13515.8	13976.3	13401.1	13200.0	12970.5	13734.3	13919.7	15684.4
62.5°	12384.4	12496.0	13261.3	14455.5	15371.7	15623.1	15373.2	14867.3	15264.8	15192.5	16751.4
65°	11678.8	11831.3	13203.1	14807.5	16617.8	17732.0	17573.2	16633.5	16569.1	16133.8	16925.8
67.5°	9821.4	9973.8	11735.4	14069.0	17133.2	19558.0	19399.2	17922.1	17361.1	16221.8	15605.8
70°	7186.1	7282.0	8966.6	11845.4	16097.7	20170.8	20225.8	18550.7	17078.2	15026.0	12813.4
72.5°	4140.7	4352.8	5533.0	8333.3	13151.3	18621.4	19003.2	17243.2	15290.0	12535.3	8958.7
75°	1780.4	1785.1	2558.3	4596.4	8906.8	14967.8	15337.1	14293.7	12007.3	8668.0	4783.4
77.5°	847.0	862.7	1125.1	2052.3	4902.8	10341.5	11337.8	10098.0	7679.6	4164.3	1807.1
80°	550.0	561.0	688.3	1018.3	2404.3	5996.6	6691.1	5825.3	3388.0	1488.1	779.4
82.5°	333.1	336.3	460.4	622.3	1323.1	2715.4	3201.0	2528.4	1445.7	891.0	458.9
85°	202.7	204.3	279.7	385.0	803.0	938.1	963.3	955.4	848.6	583.0	245.1
87.5°	97.4	100.6	144.6	182.3	315.9	290.7	275.0	319.0	400.7	314.3	105.3
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°	2948.0	2948.0	2948.0	2948.0	2948.0	2948.0	2948.0	2948.0	2948.0	2948.0	2948.0
2.5°	2944.9	2940.1	2929.1	2924.4	2921.3	2922.9	2921.3	2921.3	2922.9	2922.9	2922.9
5°	2959.0	2951.1	2933.9	2933.9	2943.3	2965.3	2985.7	3001.4	3018.7	3017.1	3017.1
7.5°	3020.3	3006.1	2985.7	2992.0	3015.6	3050.1	3086.3	3120.8	3155.4	3158.6	3157.0
10°	3109.8	3095.7	3073.7	3081.6	3119.3	3171.1	3216.7	3267.0	3304.7	3315.7	3312.6
12.5°	3212.0	3183.7	3164.8	3186.8	3246.6	3315.7	3359.7	3397.4	3424.1	3439.8	3433.6
15°	3315.7	3289.0	3267.0	3312.6	3384.8	3449.3	3471.3	3477.6	3482.3	3498.0	3494.8
17.5°	3416.3	3380.1	3372.3	3432.0	3501.1	3529.4	3516.8	3490.1	3469.7	3482.3	3480.7
20°	3505.8	3477.6	3474.4	3534.1	3560.8	3534.1	3480.7	3433.6	3397.4	3400.6	3399.0
22.5°	3590.7	3568.7	3571.8	3597.0	3554.6	3463.4	3375.4	3311.0	3271.7	3279.6	3284.3
25°	3685.0	3663.0	3670.8	3630.0	3490.1	3331.4	3204.1	3149.1	3133.4	3149.1	3160.1
27.5°	3807.6	3793.4	3788.7	3631.6	3375.4	3136.6	2992.0	2971.6	2985.7	3020.3	3037.6
30°	3939.6	3939.6	3914.4	3604.8	3218.3	2902.4	2776.7	2779.9	2828.6	2877.3	2894.6
32.5°	4066.8	4093.6	4015.0	3532.6	3015.6	2674.6	2578.7	2581.9	2624.3	2684.0	2699.7
35°	4172.1	4249.1	4101.4	3400.6	2776.7	2482.9	2410.6	2368.1	2369.7	2415.3	2427.9
37.5°	4316.7	4459.7	4151.7	3204.1	2522.1	2319.4	2237.7	2163.9	2115.1	2096.3	2096.3
40°	4568.1	4778.7	4164.3	2913.4	2281.7	2163.9	2047.6	1959.6	1865.3	1780.4	1764.7
42.5°	4994.0	5259.6	4139.1	2578.7	2064.9	1992.6	1879.4	1771.0	1640.6	1521.1	1511.7
45°	5748.3	5885.0	4071.6	2231.4	1871.6	1827.6	1717.6	1599.7	1461.4	1354.6	1346.7
47.5°	6956.7	6763.4	3982.0	1923.4	1695.6	1683.0	1598.1	1461.4	1323.1	1249.3	1241.4
50°	8721.4	8146.3	3969.4	1700.3	1554.1	1560.4	1491.3	1365.6	1244.6	1183.3	1173.9
52.5°	10846.0	9816.7	4052.7	1543.1	1430.0	1453.6	1419.0	1302.7	1195.9	1144.0	1134.6
55°	12907.7	11319.0	4103.0	1420.6	1313.7	1357.7	1362.4	1265.0	1167.6	1115.7	1109.4
57.5°	14581.3	12450.4	3879.8	1309.0	1213.1	1280.7	1315.3	1243.0	1153.4	1114.1	1107.9
60°	15745.7	12984.7	3245.0	1210.0	1139.3	1219.4	1298.0	1244.6	1188.0	1192.7	1195.9
62.5°	16116.5	12747.4	2434.1	1136.1	1089.0	1199.0	1326.3	1309.0	1250.9	1287.0	1293.3
65°	15502.1	11766.8	1764.7	1078.0	1045.0	1213.1	1411.1	1356.1	1228.9	1255.6	1255.6
67.5°	13445.1	10137.3	1373.4	1024.6	994.7	1239.9	1496.0	1351.4	1177.0	1208.4	1180.1
70°	10665.3	7841.4	1144.0	964.9	941.3	1200.6	1503.9	1302.7	1115.7	1122.0	1068.6
72.5°	7077.7	5155.8	983.7	908.3	859.6	1079.6	1439.4	1239.9	1056.0	1019.9	966.4
75°	3468.1	2570.9	858.0	837.6	752.7	939.7	1351.4	1180.1	991.6	935.0	905.1
77.5°	1343.6	1093.7	732.3	748.0	655.3	828.1	1235.1	1095.3	906.7	829.7	806.1
80°	652.1	620.7	600.3	623.9	539.0	705.6	1128.3	1021.4	828.1	743.3	708.7
82.5°	405.4	383.4	460.4	485.6	414.9	644.3	1070.1	958.6	729.1	616.0	587.7
85°	205.9	220.0	308.0	331.6	297.0	512.3	881.6	719.7	526.4	436.9	440.0
87.5°	78.6	105.3	161.9	174.4	158.7	270.3	485.6	419.6	337.9	229.4	212.1
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)