

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: P522776

Luminaire Tested: **GALN-SA5C-727-U-T4W**

Issue Date: 5/13/2021

Test Information

Test Method: LM-79-08
Report Number: P522776
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-727-U-T4W
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 2700K, 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: 29466 lumens
Efficiency: N/A
Efficacy: 109.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

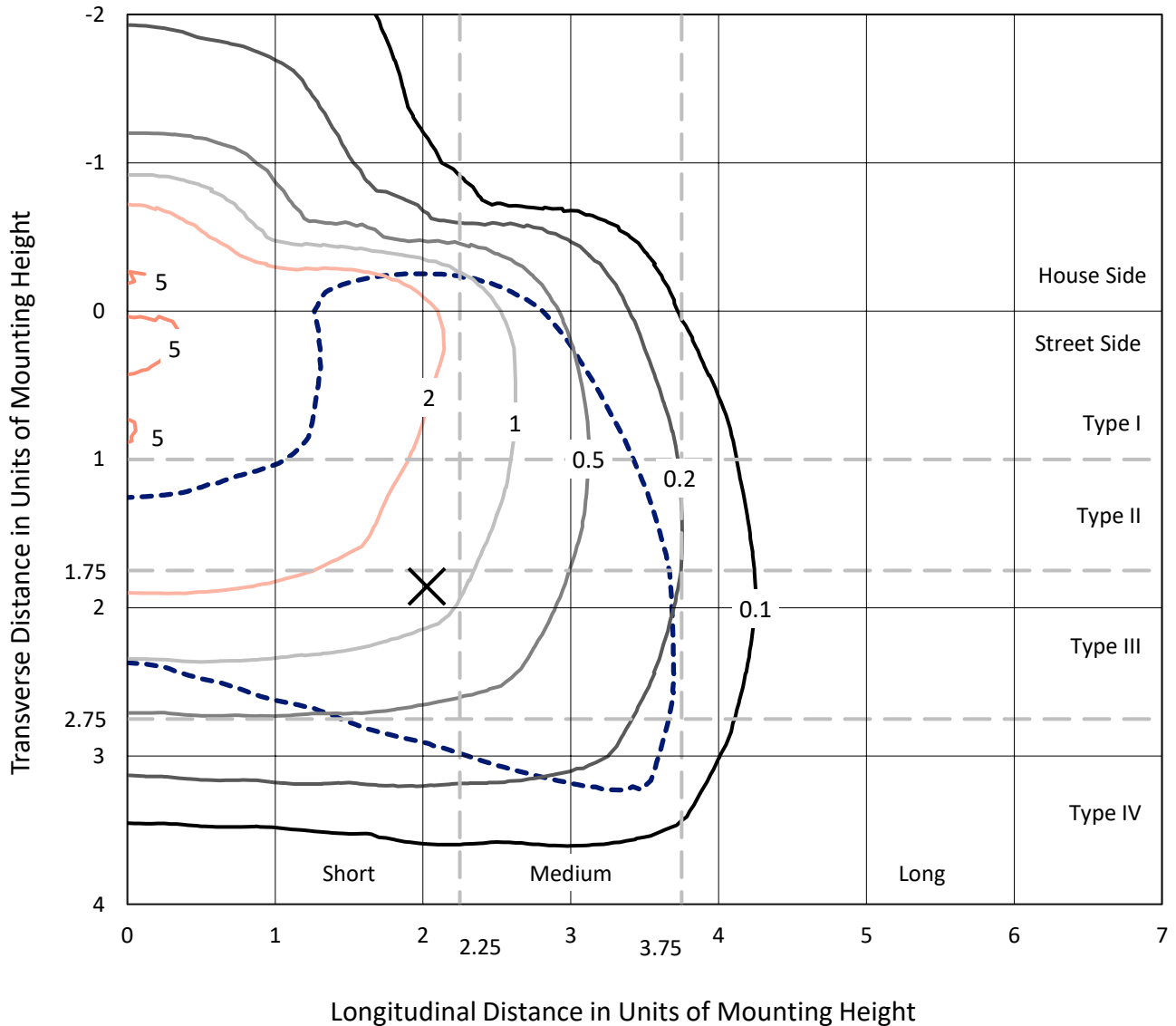
Input Watts (W): 269
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

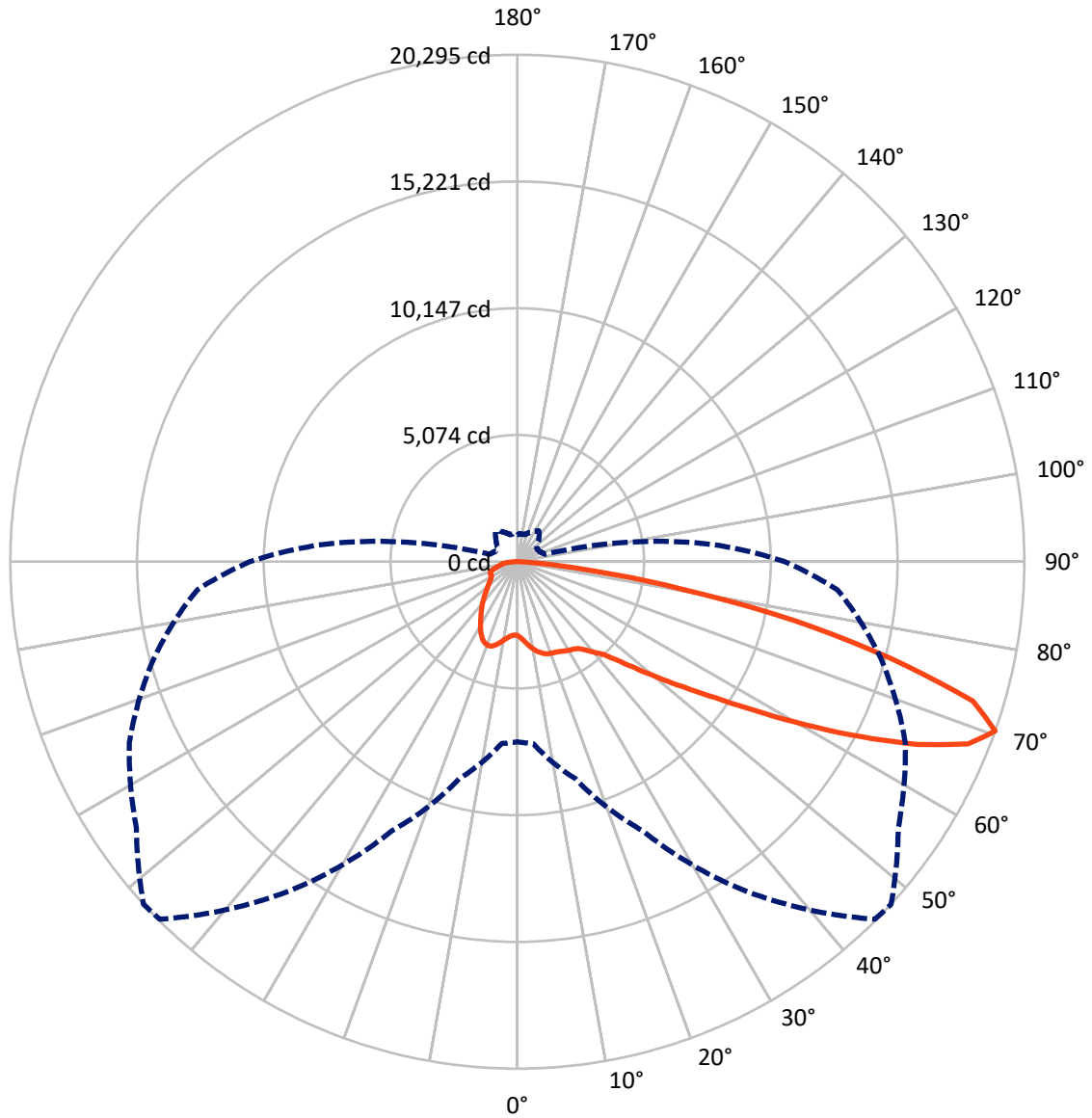
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 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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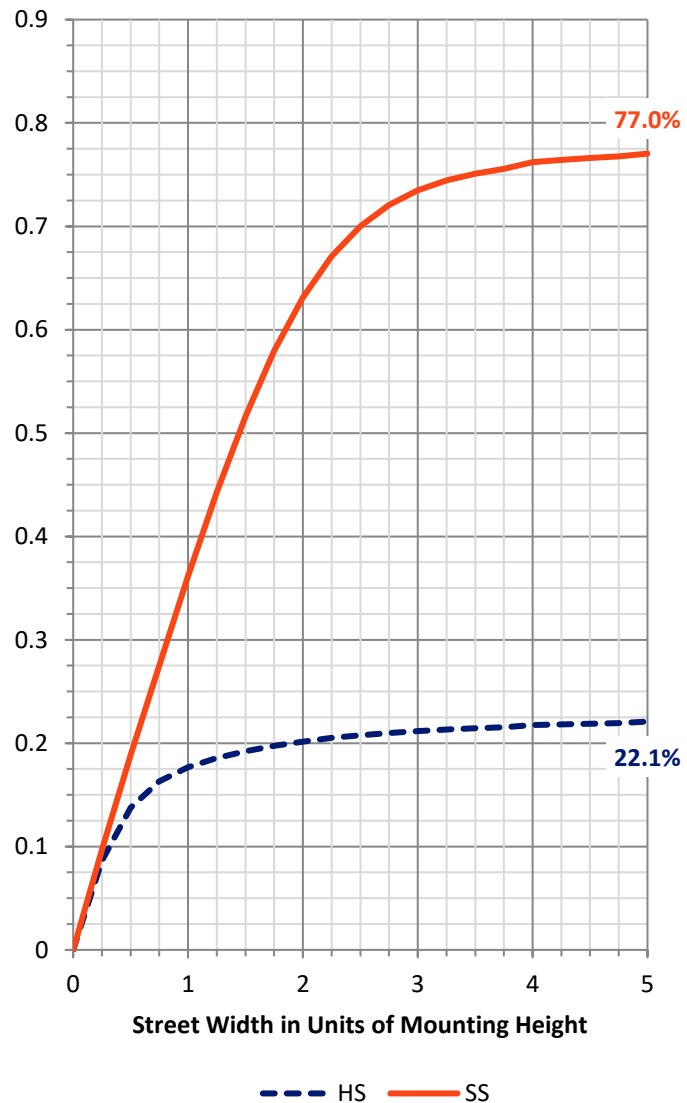
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6671.7	0.0	6671.7
	% Fixture	22.6	0.0	22.6
Street Side	Lumens	22794.3	0.0	22794.3
	% Fixture	77.4	0.0	77.4
Total	Lumens	29466.0	0.0	29466.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	304.9	1.0
10°-20°	1019.3	3.5
20°-30°	1695.2	5.8
30°-40°	2402.6	8.2
40°-50°	3546.8	12.0
50°-60°	6143.2	20.8
60°-70°	8677.5	29.4
70°-80°	4988.3	16.9
80°-90°	688.3	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°	29466.0	100.0
0°-180°	29466.0	100.0



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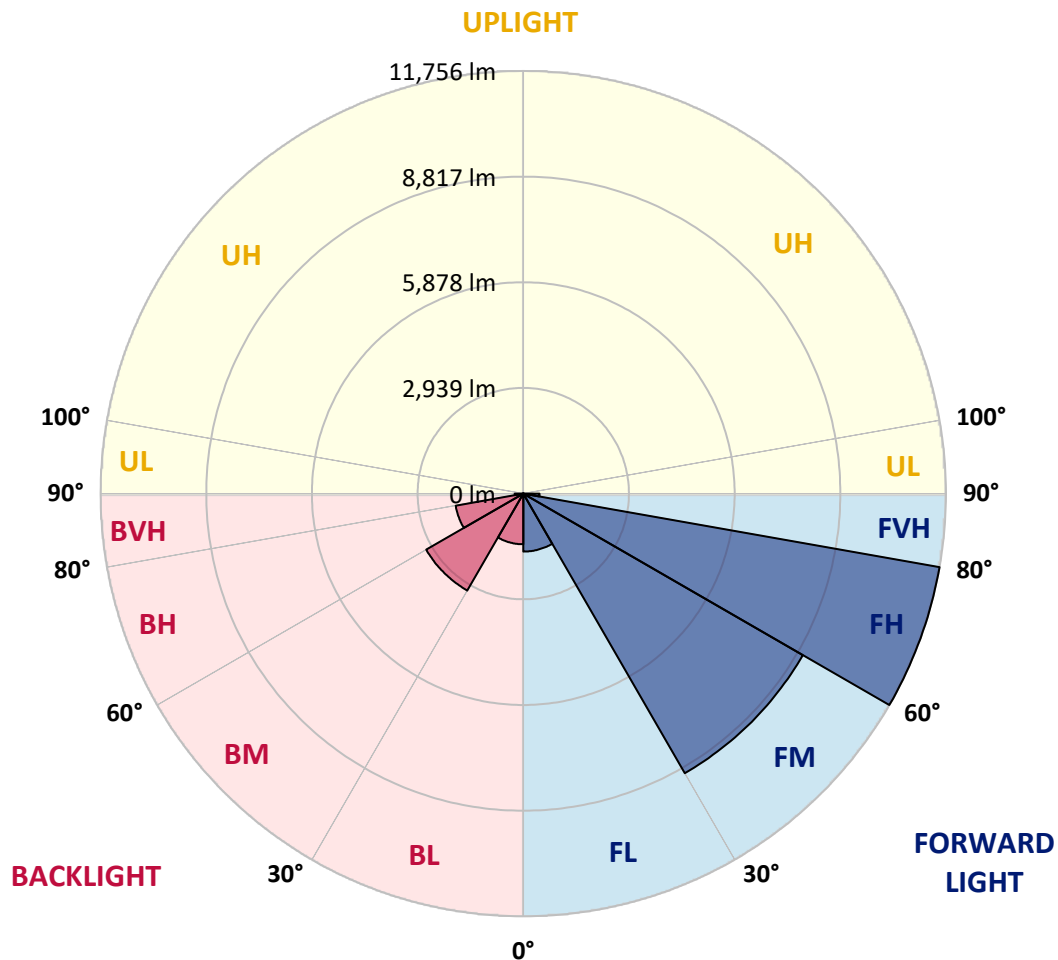
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1611.3	5.5			
FM	(30°-60°)	8977.7	30.5			
FH	(60°-80°)	11755.7	39.9			G4/12000
FVH	(80°-90°)	449.6	1.5			G3/500
BL	(0°-30°)	1408.1	4.8	B3/2500		
BM	(30°-60°)	3114.9	10.6	B3/5000		
BH	(60°-80°)	1910.0	6.5	B3/2500		G3/2500
BVH	(80°-90°)	238.7	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°	2958.0	2958.0	2958.0	2958.0	2958.0	2958.0	2958.0	2958.0	2958.0	2958.0	2958.0
2.5°	3148.8	3137.8	3136.2	3112.6	3099.9	3076.3	3066.8	3044.8	3017.9	2991.1	2965.9
5°	3396.4	3396.4	3385.3	3352.2	3300.2	3246.6	3222.9	3180.4	3104.7	3043.2	2991.1
7.5°	3650.2	3653.4	3631.3	3582.4	3508.3	3421.6	3399.5	3336.5	3229.2	3139.4	3062.1
10°	3869.4	3869.4	3839.4	3773.2	3680.2	3585.6	3563.5	3492.6	3372.7	3260.8	3159.9
12.5°	4036.5	4036.5	3997.1	3910.4	3809.5	3724.3	3699.1	3631.3	3519.4	3394.8	3267.1
15°	4145.3	4137.5	4093.3	3995.6	3897.8	3823.7	3806.3	3749.6	3647.1	3520.9	3377.5
17.5°	4150.1	4146.9	4104.3	4022.4	3937.2	3886.8	3875.7	3837.9	3757.5	3637.6	3486.3
20°	4058.6	4064.9	4036.5	3978.2	3937.2	3915.1	3910.4	3897.8	3841.0	3729.1	3577.7
22.5°	3960.9	3971.9	3945.1	3913.6	3910.4	3932.5	3935.6	3938.8	3902.5	3793.7	3655.0
25°	3937.2	3945.1	3918.3	3889.9	3907.3	3965.6	3978.2	3990.8	3962.4	3871.0	3746.4
27.5°	4057.0	4050.7	3998.7	3937.2	3948.2	4027.1	4044.4	4058.6	4044.4	3965.6	3859.9
30°	4396.1	4375.6	4271.5	4091.7	4035.0	4090.2	4107.5	4146.9	4146.9	4088.6	3982.9
32.5°	4963.7	4924.3	4733.5	4380.3	4183.2	4150.1	4167.4	4232.1	4265.2	4219.5	4104.3
35°	5652.7	5611.7	5339.0	4864.4	4454.4	4269.9	4265.2	4337.7	4426.0	4323.5	4173.7
37.5°	6344.9	6302.4	5974.4	5441.5	4850.2	4522.2	4493.8	4519.0	4556.9	4369.2	4269.9
40°	7037.2	6986.7	6699.7	6086.4	5334.2	4856.5	4782.4	4668.8	4653.1	4519.0	4456.0
42.5°	7723.0	7677.3	7532.3	6810.1	5914.5	5182.9	5069.3	4873.8	4933.7	4853.3	4798.1
45°	8415.3	8418.4	8263.9	7622.1	6614.6	5785.2	5632.2	5326.3	5468.3	5438.3	5469.8
47.5°	9028.6	9020.7	8965.5	8410.5	7483.4	6561.0	6363.9	6009.1	6251.9	6362.3	6603.5
50°	9623.1	9618.3	9621.5	9304.6	8492.5	7483.4	7265.8	6893.7	7440.8	7824.0	8256.0
52.5°	10474.5	10501.3	10310.5	10227.0	9719.2	8572.9	8333.3	7948.5	8845.7	9449.6	10293.2
55°	11329.1	11307.1	11157.3	11244.0	11002.7	9862.7	9612.0	9306.1	10409.9	11070.5	12338.3
57.5°	11832.1	11840.0	11993.0	12417.1	12587.4	11471.0	11244.0	11007.5	12168.0	12636.3	14157.9
60°	12284.7	12320.9	12760.8	13561.9	14023.8	13446.7	13244.9	13014.7	13781.0	13967.1	15737.8
62.5°	12426.6	12538.5	13306.4	14504.8	15424.0	15676.3	15425.6	14917.9	15316.8	15244.3	16808.4
65°	11718.6	11871.5	13248.1	14858.0	16674.4	17792.3	17633.1	16690.2	16625.5	16188.8	16983.5
67.5°	9854.9	10007.8	11775.4	14116.9	17191.6	19624.6	19465.3	17983.1	17420.2	16277.1	15659.0
70°	7210.6	7306.8	8997.1	11885.7	16152.5	20239.5	20294.7	18613.8	17136.4	15077.1	12857.0
72.5°	4154.8	4367.7	5551.8	8361.6	13196.0	18684.8	19068.0	17302.0	15342.0	12577.9	8989.2
75°	1786.5	1791.2	2567.0	4612.1	8937.2	15018.8	15389.3	14342.4	12048.1	8697.5	4799.7
77.5°	849.9	865.7	1129.0	2059.3	4919.5	10376.8	11376.4	10132.4	7705.7	4178.5	1813.3
80°	551.9	562.9	690.6	1021.8	2412.5	6017.0	6713.9	5845.1	3399.5	1493.2	782.1
82.5°	334.3	337.4	462.0	624.4	1327.6	2724.7	3211.9	2537.0	1450.6	894.0	460.4
85°	203.4	205.0	280.7	386.3	805.7	941.3	966.6	958.7	851.5	585.0	246.0
87.5°	97.8	100.9	145.1	182.9	316.9	291.7	275.9	320.1	402.1	315.4	105.6
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°	2958.0	2958.0	2958.0	2958.0	2958.0	2958.0	2958.0	2958.0	2958.0	2958.0	2958.0
2.5°	2954.9	2950.1	2939.1	2934.4	2931.2	2932.8	2931.2	2931.2	2932.8	2932.8	2932.8
5°	2969.1	2961.2	2943.8	2943.8	2953.3	2975.4	2995.9	3011.6	3029.0	3027.4	3027.4
7.5°	3030.6	3016.4	2995.9	3002.2	3025.8	3060.5	3096.8	3131.5	3166.2	3169.3	3167.7
10°	3120.4	3106.2	3084.2	3092.1	3129.9	3181.9	3227.7	3278.1	3316.0	3327.0	3323.8
12.5°	3222.9	3194.5	3175.6	3197.7	3257.6	3327.0	3371.1	3409.0	3435.8	3451.6	3445.3
15°	3327.0	3300.2	3278.1	3323.8	3396.4	3461.0	3483.1	3489.4	3494.1	3509.9	3506.7
17.5°	3427.9	3391.6	3383.8	3443.7	3513.1	3541.4	3528.8	3502.0	3481.5	3494.1	3492.6
20°	3517.8	3489.4	3486.3	3546.2	3573.0	3546.2	3492.6	3445.3	3409.0	3412.1	3410.6
22.5°	3602.9	3580.9	3584.0	3609.2	3566.7	3475.2	3386.9	3322.3	3282.8	3290.7	3295.5
25°	3697.5	3675.5	3683.3	3642.4	3502.0	3342.8	3215.0	3159.9	3144.1	3159.9	3170.9
27.5°	3820.5	3806.3	3801.6	3643.9	3386.9	3147.2	3002.2	2981.7	2995.9	3030.6	3047.9
30°	3953.0	3953.0	3927.7	3617.1	3229.2	2912.3	2786.2	2789.3	2838.2	2887.1	2904.4
32.5°	4080.7	4107.5	4028.7	3544.6	3025.8	2683.7	2587.5	2590.6	2633.2	2693.1	2708.9
35°	4186.3	4263.6	4115.4	3412.1	2786.2	2491.3	2418.8	2376.2	2377.8	2423.5	2436.1
37.5°	4331.4	4474.9	4165.8	3215.0	2530.7	2327.3	2245.3	2171.2	2122.3	2103.4	2103.4
40°	4583.7	4795.0	4178.5	2923.3	2289.5	2171.2	2054.5	1966.2	1871.6	1786.5	1770.7
42.5°	5011.0	5277.5	4153.2	2587.5	2071.9	1999.4	1885.8	1777.0	1646.2	1526.3	1516.9
45°	5767.8	5905.0	4085.4	2239.0	1877.9	1833.8	1723.4	1605.2	1466.4	1359.2	1351.3
47.5°	6980.4	6786.4	3995.6	1930.0	1701.3	1688.7	1603.6	1466.4	1327.6	1253.5	1245.7
50°	8751.1	8174.0	3982.9	1706.1	1559.4	1565.7	1496.4	1370.2	1248.8	1187.3	1177.9
52.5°	10882.9	9850.1	4066.5	1548.4	1434.9	1458.5	1423.8	1307.1	1199.9	1147.9	1138.4
55°	12951.6	11357.5	4117.0	1425.4	1318.2	1362.3	1367.1	1269.3	1171.5	1119.5	1113.2
57.5°	14630.9	12492.8	3893.1	1313.5	1217.3	1285.1	1319.8	1247.2	1157.4	1117.9	1111.6
60°	15799.3	13028.9	3256.0	1214.1	1143.2	1223.6	1302.4	1248.8	1192.0	1196.8	1199.9
62.5°	16171.4	12790.8	2442.4	1140.0	1092.7	1203.1	1330.8	1313.5	1255.1	1291.4	1297.7
65°	15554.9	11806.9	1770.7	1081.7	1048.6	1217.3	1415.9	1360.8	1233.0	1259.8	1259.8
67.5°	13490.9	10171.8	1378.1	1028.1	998.1	1244.1	1501.1	1356.0	1181.0	1212.5	1184.2
70°	10701.6	7868.1	1147.9	968.1	944.5	1204.7	1509.0	1307.1	1119.5	1125.8	1072.2
72.5°	7101.8	5173.4	987.1	911.4	862.5	1083.2	1444.3	1244.1	1059.6	1023.3	969.7
75°	3479.9	2579.6	860.9	840.4	755.3	942.9	1356.0	1184.2	994.9	938.2	908.2
77.5°	1348.1	1097.4	734.8	750.5	657.5	831.0	1239.3	1099.0	909.8	832.5	808.9
80°	654.4	622.8	602.3	626.0	540.8	708.0	1132.1	1024.9	831.0	745.8	711.1
82.5°	406.8	384.7	462.0	487.2	416.3	646.5	1073.8	961.8	731.6	618.1	589.7
85°	206.6	220.7	309.0	332.7	298.0	514.0	884.6	722.2	528.2	438.3	441.5
87.5°	78.8	105.6	162.4	175.0	159.3	271.2	487.2	421.0	339.0	230.2	212.9
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)