

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: P647962

Luminaire Tested: **GALN-SA5A-835-U-T3R**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P647962
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-8)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA5A-835-U-T3R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18350.4 lumens
Efficiency: N/A
Efficacy: 119.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B2 - U0 - G3

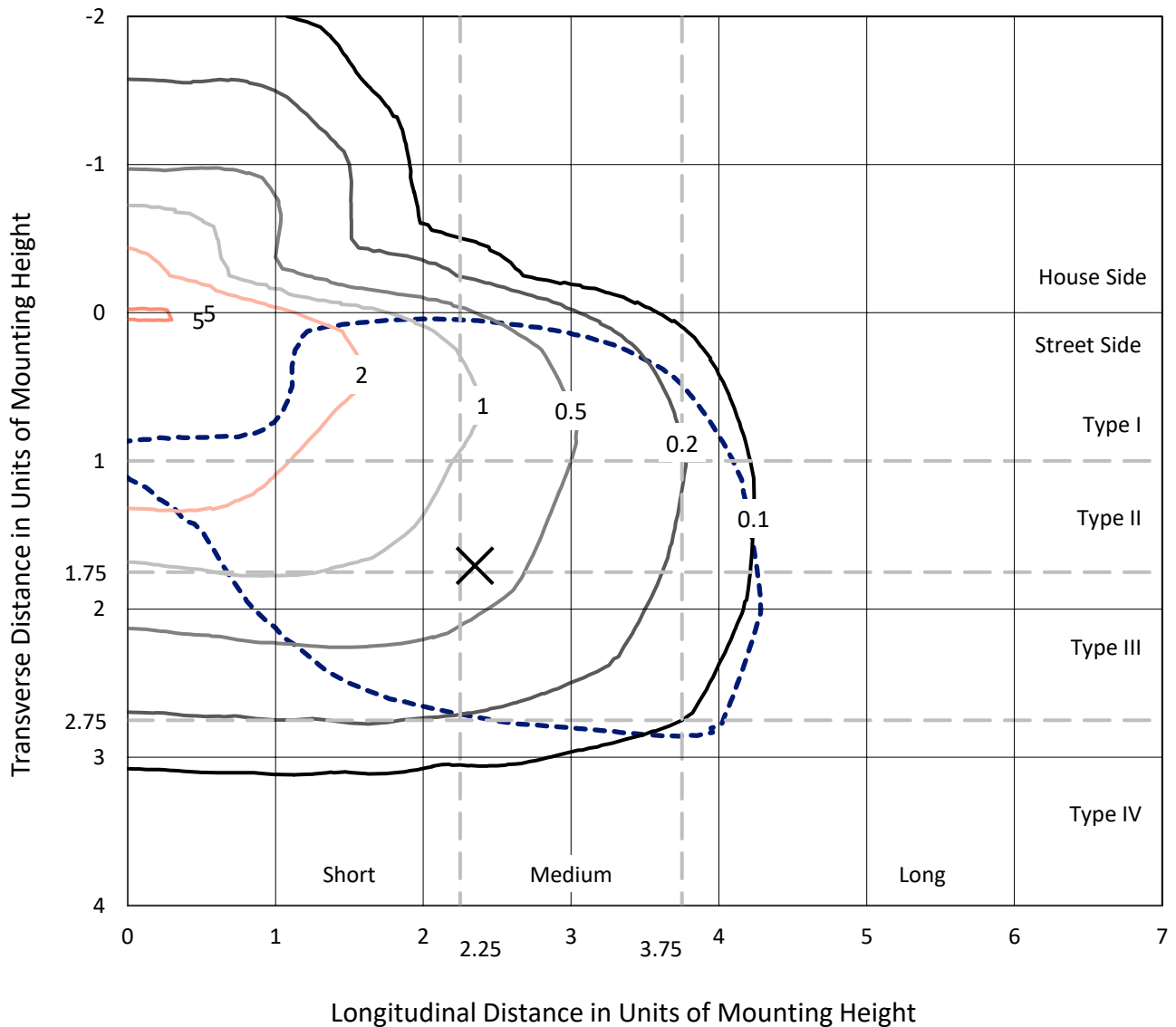
Input Watts (W): 154
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

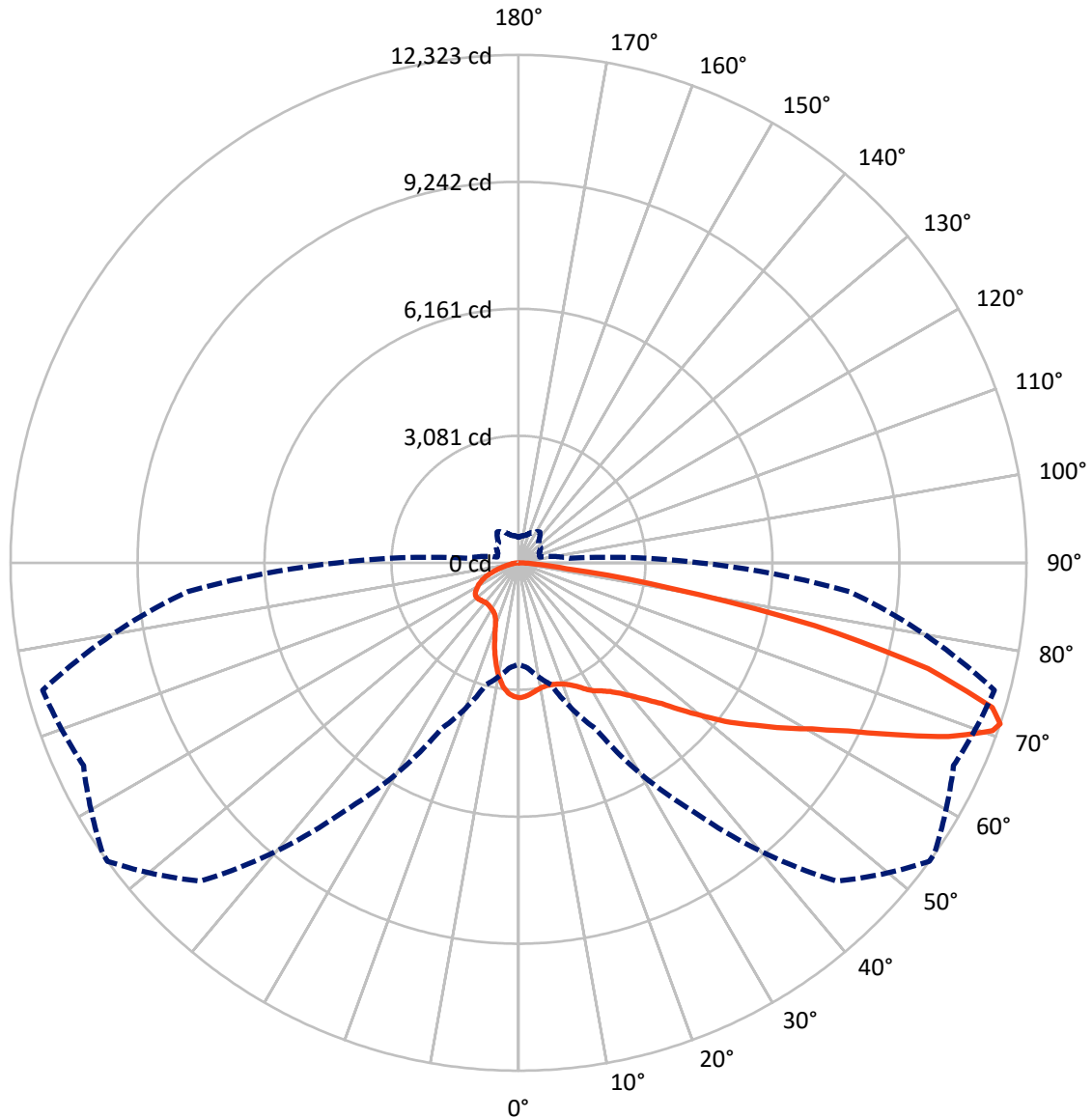
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.3 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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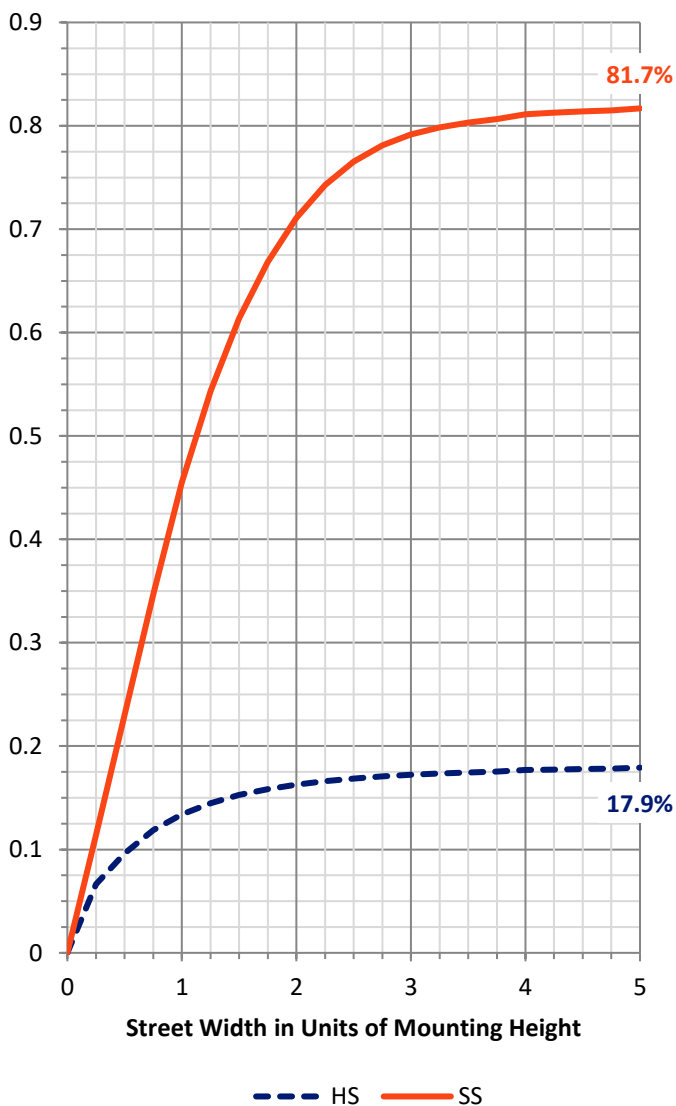
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3313.0	0.0	3313.0
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	15037.3	0.0	15037.3
	% Fixture	81.9	0.0	81.9
Total	Lumens	18350.4	0.0	18350.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	291.8	1.6
10°-20°	770.4	4.2
20°-30°	1282.7	7.0
30°-40°	1896.8	10.3
40°-50°	2671.6	14.6
50°-60°	3577.5	19.5
60°-70°	4509.1	24.6
70°-80°	3079.7	16.8
80°-90°	270.8	1.5
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°	18350.4	100.0
0°-180°	18350.4	100.0

Coefficient of Utilization



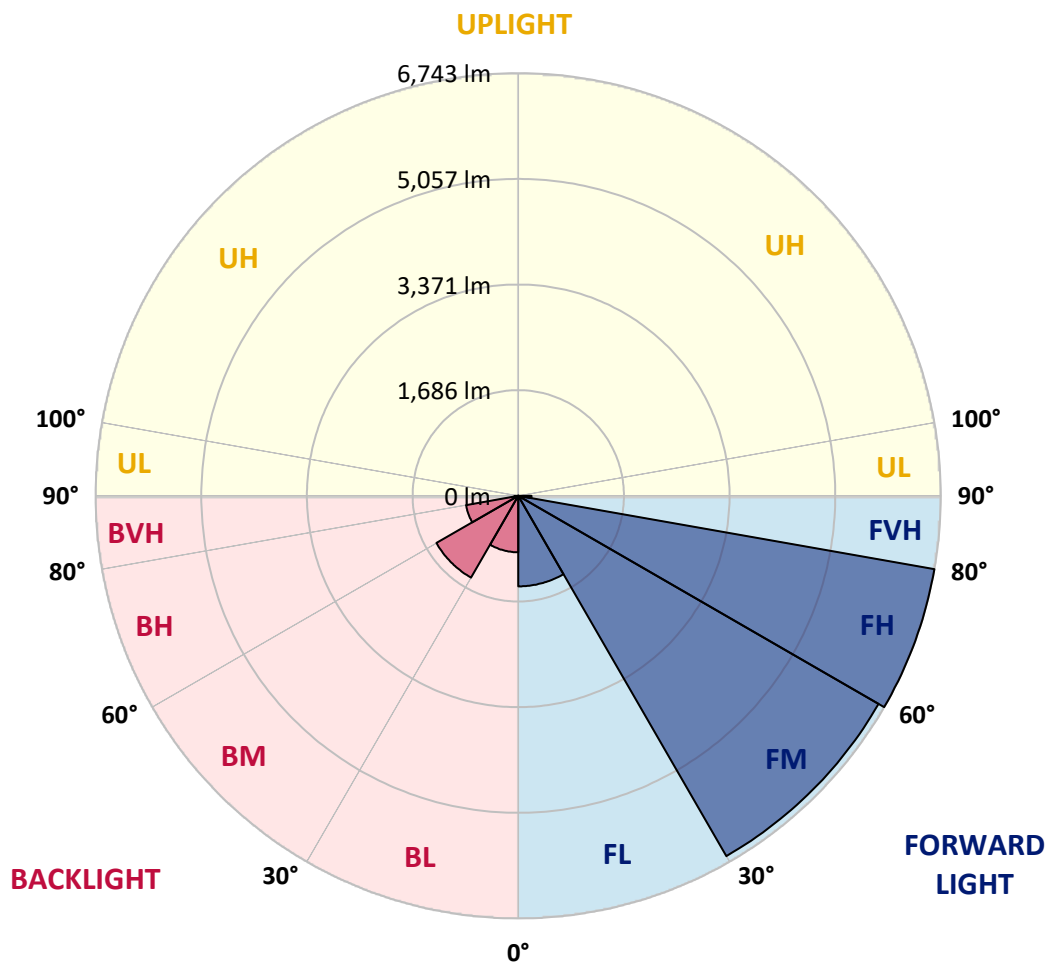
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1444.5	7.9			
FM (30°-60°)	6638.5	36.2			
FH (60°-80°)	6742.7	36.7			G3/7500
FVH (80°-90°)	211.7	1.2			G2/225
BL (0°-30°)	900.4	4.9	B2/1000		
BM (30°-60°)	1507.3	8.2	B2/2500		
BH (60°-80°)	846.1	4.6	B2/1000		G2/1000
BVH (80°-90°)	59.1	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	3274.0	3274.0	3274.0	3274.0	3274.0	3274.0	3274.0	3274.0	3274.0	3274.0	3274.0
2.5°	3162.9	3177.8	3181.8	3191.7	3212.5	3229.4	3246.2	3244.3	3268.0	3278.0	3286.9
5°	3022.2	3026.1	3041.0	3060.9	3097.5	3144.1	3189.7	3190.7	3249.2	3295.8	3318.6
7.5°	2919.1	2932.0	2941.9	2962.7	3001.4	3052.0	3124.3	3130.3	3234.3	3326.5	3375.1
10°	2851.7	2866.6	2877.5	2903.3	2941.9	2998.4	3076.7	3087.6	3223.5	3375.1	3460.3
12.5°	2790.3	2805.1	2815.0	2848.8	2899.3	2968.7	3056.9	3069.8	3227.4	3431.6	3553.5
15°	2828.0	2839.9	2835.9	2845.8	2879.5	2958.8	3064.8	3077.7	3242.2	3486.1	3645.6
17.5°	2995.4	3005.4	2972.7	2935.0	2919.1	2977.6	3089.6	3103.5	3272.0	3542.6	3739.8
20°	3242.2	3269.0	3197.7	3113.4	3037.1	3045.0	3141.2	3156.0	3313.7	3599.1	3836.0
22.5°	3563.4	3583.2	3496.0	3357.3	3216.5	3144.1	3218.4	3227.4	3376.1	3672.4	3941.1
25°	3941.1	3953.0	3832.0	3653.6	3450.4	3313.7	3324.5	3340.4	3479.2	3755.7	4034.3
27.5°	4307.8	4345.5	4205.7	3987.7	3720.0	3492.0	3470.3	3480.1	3591.2	3802.3	4098.7
30°	4742.9	4740.0	4592.3	4339.5	3996.6	3686.4	3608.0	3606.0	3651.6	3825.1	4145.3
32.5°	5089.9	5130.5	4985.8	4710.2	4312.8	3887.5	3703.2	3699.2	3698.2	3864.7	4214.7
35°	5484.4	5490.3	5357.5	5079.9	4654.8	4140.3	3836.0	3816.2	3793.4	3950.0	4308.8
37.5°	5837.3	5865.0	5743.1	5431.8	4990.8	4403.0	4018.4	4005.5	3936.1	4097.7	4459.5
40°	6112.8	6133.6	6060.3	5763.9	5321.8	4686.5	4250.4	4226.6	4142.3	4339.5	4660.7
42.5°	6203.0	6245.7	6274.4	6128.7	5702.4	5022.5	4535.8	4506.1	4441.6	4706.3	4892.7
45°	6210.0	6277.4	6429.0	6435.9	6085.1	5424.9	4868.9	4848.0	4843.1	5176.1	5218.8
47.5°	6157.4	6225.8	6480.6	6618.3	6426.1	5831.3	5349.6	5316.9	5319.9	5757.0	5584.5
50°	6030.5	6111.9	6421.1	6735.3	6692.7	6253.6	5857.1	5846.2	5907.7	6420.1	5964.1
52.5°	5791.7	5889.8	6359.6	6808.7	6890.9	6617.4	6434.0	6403.2	6558.9	7139.7	6379.5
55°	5130.5	5278.2	6134.6	6849.3	7079.3	6965.3	6953.4	7008.9	7215.0	7924.7	6836.4
57.5°	4785.6	4896.6	5646.0	6856.3	7317.1	7369.7	7560.0	7573.9	7934.7	8758.4	7352.8
60°	4597.2	4695.4	5378.3	6810.6	7649.2	7870.2	8180.5	8230.0	8637.4	9661.4	7888.1
62.5°	4432.7	4517.0	5217.8	6653.0	8023.9	8612.7	8984.4	9008.2	9435.4	10658.5	8416.4
65°	4045.1	4141.3	4894.6	6495.5	8347.0	9540.5	10050.9	10023.2	10284.9	11518.9	8747.4
67.5°	3522.8	3644.7	4291.0	5951.3	8506.6	10554.4	11252.3	11217.6	11123.4	12082.9	8842.7
70°	2855.7	2921.1	3518.8	5010.6	7869.2	11086.7	12200.9	12164.2	11642.8	12157.2	8392.6
71°	2457.2	2559.3	3063.9	4450.6	7339.0	10924.2	12322.8	12312.8	11643.8	11952.0	8053.6
72.5°	1918.0	1980.4	2426.5	3448.4	6237.7	10000.4	12021.5	12059.1	11391.0	11382.1	7354.8
75°	1213.3	1241.0	1522.5	2030.0	3422.6	7082.2	10262.1	10364.1	10114.3	9316.4	5469.5
77.5°	704.8	740.4	911.9	1196.4	1478.9	3843.9	7342.9	7453.9	7027.7	5129.5	2239.1
80°	410.4	450.0	600.6	694.8	679.0	1426.4	3738.8	3928.2	3043.1	1295.6	628.4
82.5°	228.0	254.7	422.3	423.2	361.8	465.9	1176.5	1231.1	868.3	522.3	256.7
85°	165.5	187.4	272.6	246.8	173.4	200.2	409.4	429.2	350.9	220.0	83.2
87.5°	58.5	83.2	149.7	118.9	47.6	41.7	117.9	96.2	89.2	61.5	18.9
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°	3274.0	3274.0	3274.0	3274.0	3274.0	3274.0	3274.0	3274.0	3274.0	3274.0	3274.0
2.5°	3291.8	3293.8	3283.9	3266.0	3248.2	3225.4	3199.7	3179.8	3170.9	3169.9	3168.9
5°	3327.5	3332.4	3294.8	3239.3	3177.8	3102.5	3038.0	2964.8	2945.9	2916.1	2925.1
7.5°	3385.0	3382.0	3307.7	3189.7	3046.0	2886.5	2751.6	2673.3	2592.0	2569.3	2570.2
10°	3467.3	3448.4	3307.7	3088.6	2848.8	2611.9	2423.5	2304.6	2240.2	2186.6	2166.8
12.5°	3554.5	3506.9	3276.0	2946.9	2595.0	2304.6	2102.4	1941.8	1900.2	1856.6	1857.5
15°	3637.7	3558.4	3213.5	2747.6	2321.4	1976.4	1780.2	1684.1	1671.2	1676.2	1675.2
17.5°	3713.1	3595.1	3118.4	2525.6	2002.3	1695.0	1590.9	1597.9	1632.6	1657.3	1660.3
20°	3789.4	3616.9	2976.7	2228.3	1700.9	1524.5	1528.4	1583.0	1635.5	1669.2	1674.1
22.5°	3861.8	3626.9	2810.1	1940.8	1482.8	1452.2	1510.6	1569.1	1620.7	1653.4	1658.3
25°	3909.4	3604.1	2574.2	1640.5	1375.8	1426.4	1487.8	1537.3	1581.0	1614.7	1622.6
27.5°	3922.2	3530.7	2281.7	1397.6	1326.2	1401.6	1458.1	1494.7	1528.4	1560.2	1566.2
30°	3915.3	3422.6	1960.6	1254.9	1297.5	1372.8	1416.4	1443.2	1483.9	1508.6	1513.6
32.5°	3904.4	3296.7	1625.6	1178.6	1273.7	1346.1	1371.8	1395.6	1394.6	1384.7	1391.6
35°	3908.3	3146.1	1354.0	1132.9	1252.9	1326.2	1348.0	1318.3	1233.1	1229.1	1225.2
37.5°	3929.2	2997.4	1156.7	1101.2	1242.0	1323.3	1335.2	1198.4	1123.1	1088.4	1079.4
40°	3982.7	2824.0	1026.9	1077.5	1241.0	1346.1	1276.7	1137.9	993.2	925.8	920.8
42.5°	4054.1	2653.5	947.6	1062.6	1252.9	1380.7	1252.9	1052.7	895.0	855.4	849.5
45°	4160.2	2458.2	904.0	1055.6	1270.7	1393.7	1245.0	990.3	855.4	823.7	823.7
47.5°	4280.0	2271.9	880.2	1050.7	1293.5	1384.7	1174.6	970.4	836.6	840.6	859.4
50°	4399.0	2110.3	862.3	1039.7	1313.3	1379.8	1145.8	969.4	841.6	892.1	925.8
52.5°	4536.8	1996.3	840.6	1022.0	1313.3	1348.0	1136.9	989.2	855.4	870.3	885.2
55°	4703.3	1960.6	812.8	983.3	1289.6	1268.8	1132.0	1018.0	865.3	830.6	836.6
57.5°	4923.3	2018.1	786.1	934.7	1235.0	1186.5	1129.9	1025.9	842.5	813.8	807.8
60°	5179.1	2132.1	778.1	885.2	1160.7	1116.1	1118.1	1003.1	810.8	781.0	786.1
62.5°	5358.5	2200.5	773.1	847.5	1079.4	1038.8	1089.3	975.4	796.9	771.2	776.1
65°	5358.5	2117.2	727.6	790.0	974.4	945.6	1054.6	940.7	779.1	749.3	744.4
67.5°	5155.3	1874.4	658.2	703.8	858.4	839.5	1006.1	899.0	752.3	729.5	717.6
70°	4626.0	1421.4	571.0	602.7	711.7	728.6	943.7	842.5	707.8	680.0	662.1
71°	4393.1	1238.0	534.2	551.2	655.2	680.0	913.9	818.7	687.9	648.2	616.5
72.5°	3944.0	1042.7	478.7	485.7	560.0	604.6	851.4	773.1	650.2	593.7	558.0
75°	2996.5	761.2	385.5	381.6	414.4	479.7	720.6	688.9	569.9	493.6	472.8
77.5°	1294.5	414.4	288.5	291.4	281.5	363.8	567.0	591.8	488.7	401.4	382.6
80°	392.5	238.9	197.2	201.2	188.3	243.8	399.5	463.8	392.5	312.3	286.5
82.5°	201.2	142.7	134.8	132.8	120.0	137.8	241.9	317.2	280.5	195.3	172.5
85°	87.2	76.3	66.4	64.4	56.5	49.6	86.2	158.6	148.7	109.1	104.1
87.5°	21.8	19.8	12.9	11.9	7.0	1.0	0.0	0.0	0.0	0.0	0.0
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)