

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: P648444

Luminaire Tested: **GALN-SA5B-835-U-T2-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P648444
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-14)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA5B-835-U-T2-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18715.3 lumens
Efficiency: N/A
Efficacy: 91.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

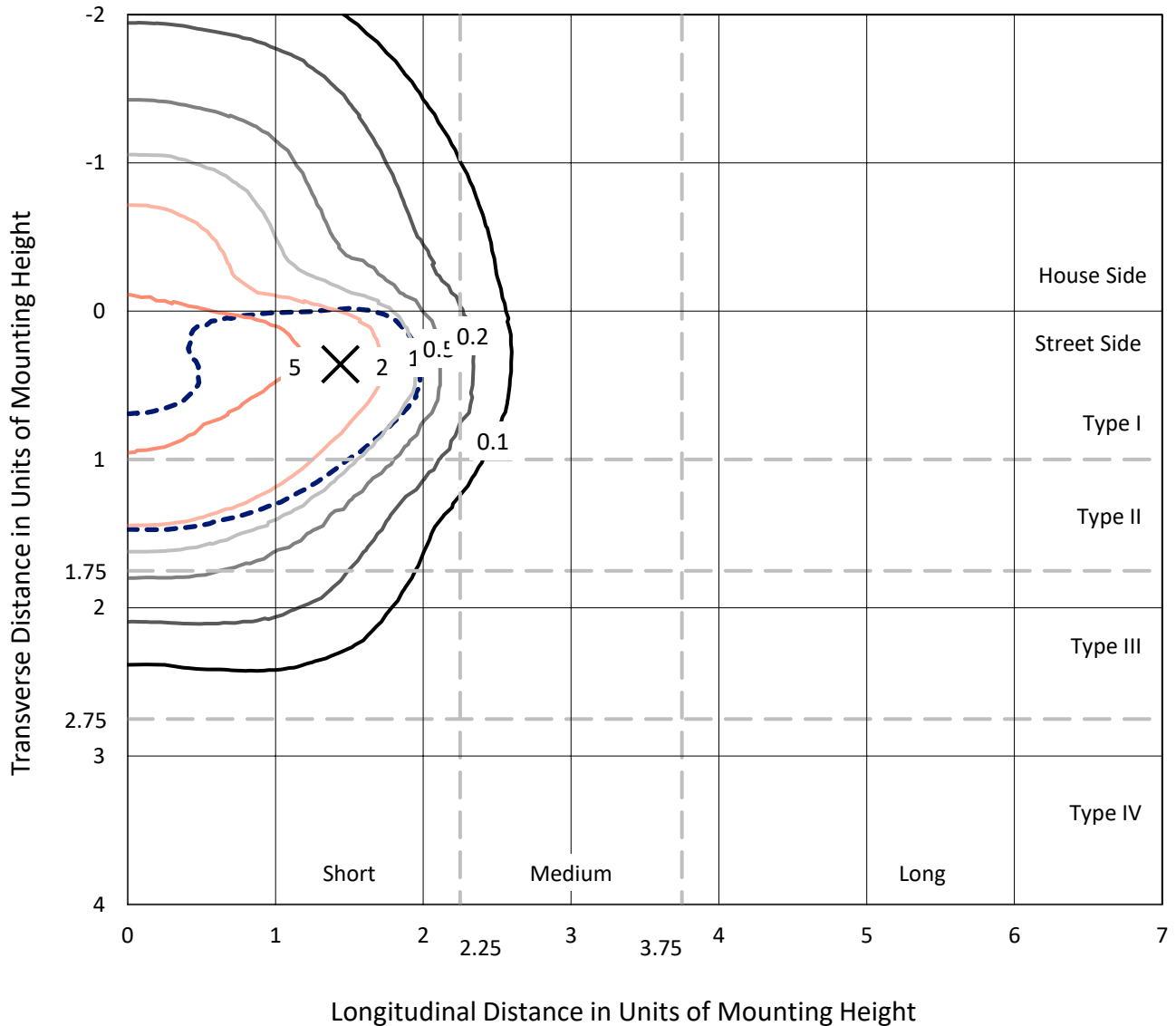
Input Watts (W): 204
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

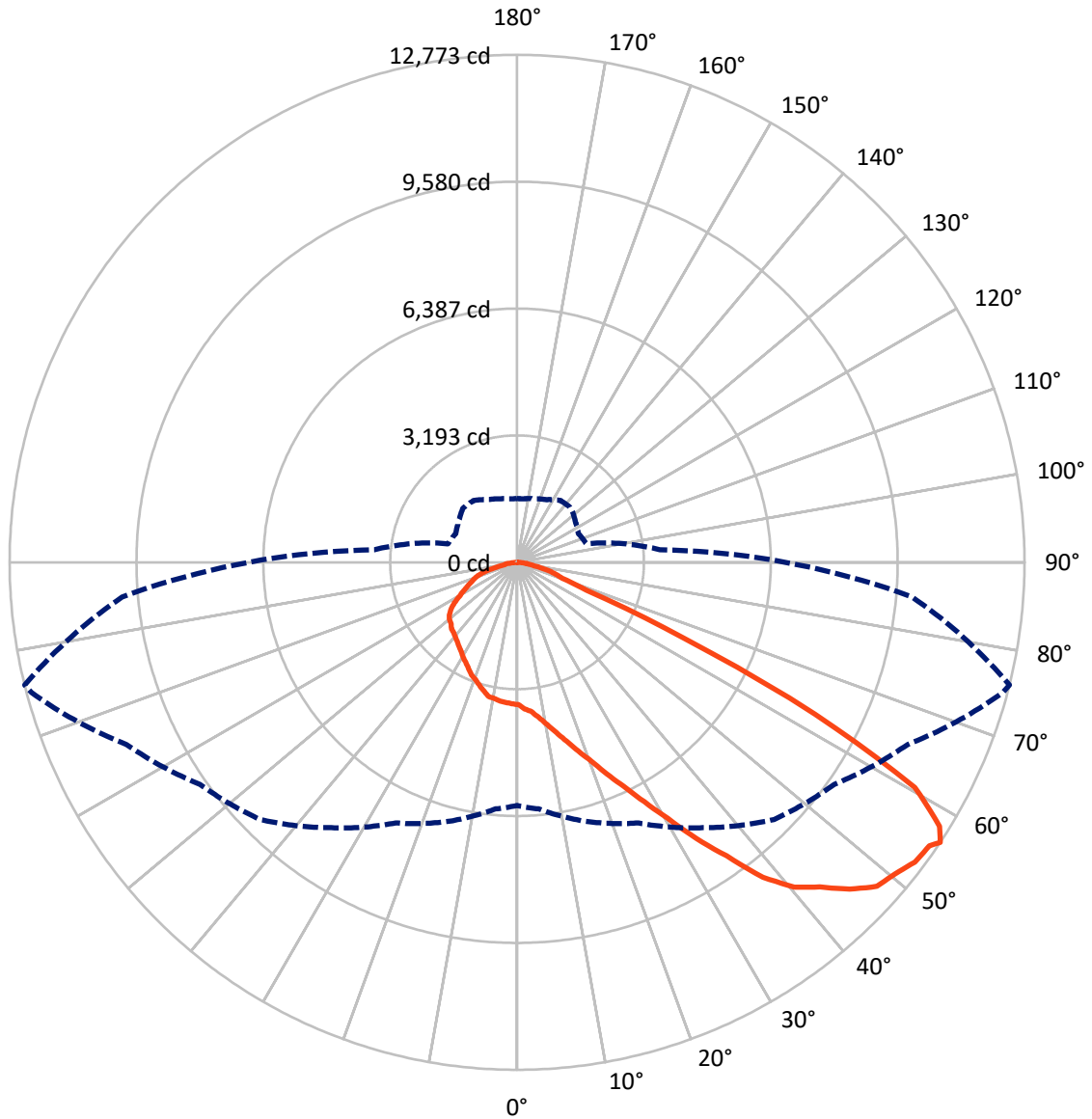
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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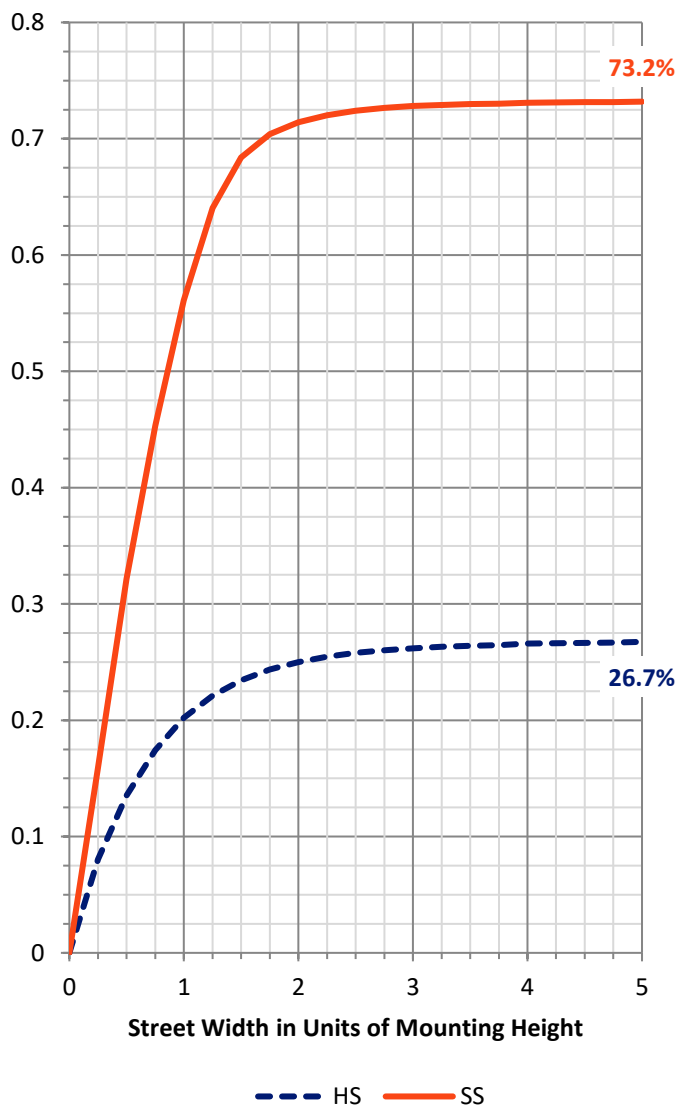
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5032.0	0.0	5032.0
	% Fixture	26.9	0.0	26.9
Street Side	Lumens	13683.3	0.0	13683.3
	% Fixture	73.1	0.0	73.1
Total	Lumens	18715.3	0.0	18715.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	355.1	1.9
10°-20°	1115.5	6.0
20°-30°	1950.9	10.4
30°-40°	3054.6	16.3
40°-50°	4443.6	23.7
50°-60°	4883.8	26.1
60°-70°	2179.9	11.6
70°-80°	629.6	3.4
80°-90°	102.1	0.5
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°	18715.3	100.0
0°-180°	18715.3	100.0

Coefficient of Utilization

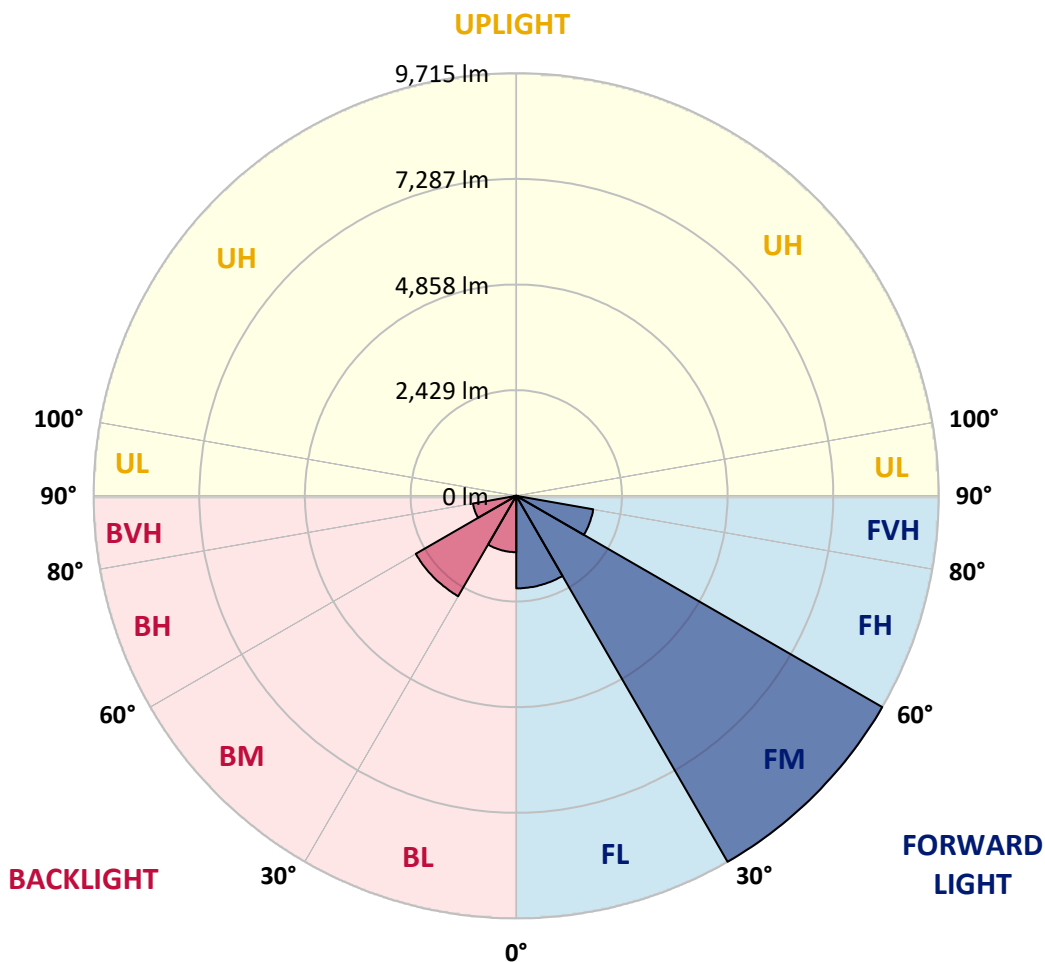


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2126.8	11.4			
FM (30°-60°)	9715.4	51.9			
FH (60°-80°)	1797.1	9.6			G1/1800
FVH (80°-90°)	44.0	0.2			G1/100
BL (0°-30°)	1294.8	6.9	B3/2500		
BM (30°-60°)	2666.5	14.2	B3/5000		
BH (60°-80°)	1012.4	5.4	B3/2500		G3/2500
BVH (80°-90°)	58.2	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	3580.9	3580.9	3580.9	3580.9	3580.9	3580.9	3580.9	3580.9	3580.9	3580.9	3580.9
2.5°	3944.8	3881.8	3876.9	3860.0	3869.7	3826.0	3779.9	3719.2	3656.1	3695.0	3602.7
5°	4221.4	4136.5	4170.5	4112.2	4119.5	4061.3	3966.7	3896.3	3818.7	3772.6	3707.1
7.5°	4318.5	4325.8	4350.0	4340.3	4291.8	4291.8	4228.7	4105.0	3969.1	3942.4	3833.3
10°	4449.5	4451.9	4425.2	4432.5	4500.4	4468.9	4413.1	4359.7	4185.1	4153.5	3959.4
12.5°	4495.6	4451.9	4495.6	4534.4	4614.5	4658.1	4646.0	4607.2	4420.3	4398.5	4114.7
15°	4502.9	4476.2	4512.6	4599.9	4670.3	4854.6	4946.8	4920.1	4672.7	4675.1	4289.4
17.5°	4468.9	4505.3	4519.8	4595.0	4757.6	4929.8	5196.7	5233.1	5029.3	4997.7	4510.2
20°	4515.0	4488.3	4507.7	4575.6	4791.6	5060.8	5410.2	5650.4	5364.1	5342.3	4738.2
22.5°	4692.0	4655.7	4650.9	4694.5	4849.7	5128.8	5635.8	6067.7	5771.7	5783.9	5022.0
25°	4830.4	4849.7	4832.8	4830.4	4927.4	5230.7	5934.3	6565.1	6324.8	6254.5	5356.8
27.5°	5068.1	5114.2	5080.3	5126.4	5104.5	5383.5	6147.7	7115.7	6921.6	6827.1	5660.1
30°	5398.1	5422.4	5390.8	5390.8	5325.3	5597.0	6341.8	7690.7	7610.7	7482.1	6016.7
32.5°	5832.3	5868.7	5805.6	5769.3	5759.6	5914.9	6691.2	8258.5	8394.3	8285.2	6489.8
35°	6407.4	6385.5	6310.3	6276.3	6145.3	6402.5	7210.4	8911.1	9267.7	9073.6	7062.3
37.5°	6914.4	6880.5	6875.6	6686.4	6717.9	6928.9	7651.9	9406.0	10114.4	10058.7	7666.5
40°	7387.4	7419.0	7470.0	7363.3	7314.7	7547.6	8166.2	9784.4	10771.9	10750.0	8132.3
42.5°	7894.5	7865.4	7955.2	7865.4	7792.7	8122.6	8724.3	10046.5	11349.3	11169.8	8620.0
45°	8629.7	8537.4	8569.0	8576.3	8522.9	8644.2	8954.8	10235.7	11754.5	11735.1	8976.5
47.5°	9243.5	9245.9	9192.5	9151.2	8988.7	9110.0	9211.9	10354.6	12220.3	12188.7	9114.8
50°	9471.5	9439.9	9595.2	9685.0	9694.7	9447.2	9413.3	10420.1	12465.3	12327.0	9253.2
52.5°	8651.4	8680.6	8925.7	9459.3	9767.5	9794.2	9648.6	10555.9	12564.8	12535.7	9364.8
55°	6962.9	7103.6	7506.4	8122.6	8852.8	9655.9	9903.4	10696.7	12618.1	12593.9	9859.7
56°	6121.0	6230.3	6754.2	7237.0	8154.2	9153.7	9743.3	10847.1	12659.4	12773.4	9976.1
57.5°	4927.4	5053.6	5429.6	5977.9	7059.9	8197.8	9301.6	10662.7	12499.3	12543.0	10061.1
60°	3081.2	3093.2	3544.6	3906.0	4667.9	5779.0	7098.8	9277.4	11567.7	11504.5	9037.2
62.5°	2020.9	2023.4	2433.4	2729.4	3076.3	3331.0	4177.8	6152.6	8535.0	8423.4	6434.0
65°	1419.3	1450.8	1768.6	2164.1	2304.8	2171.3	2144.6	3243.7	4767.3	4607.2	3457.2
67.5°	1038.3	1040.8	1322.3	1746.8	1950.6	1652.2	1341.7	1584.2	1887.5	1882.6	1601.2
70°	686.6	715.7	931.6	1305.3	1538.1	1327.1	1096.6	1133.0	1200.9	1200.9	1191.2
72.5°	400.3	427.0	570.1	827.3	863.7	829.7	868.6	970.5	1014.1	1011.7	999.6
75°	228.1	240.1	271.7	344.5	429.4	507.1	638.1	735.1	778.8	805.5	773.9
77.5°	133.4	140.7	160.1	196.5	223.2	274.1	346.9	414.8	473.1	465.8	470.7
80°	70.4	70.4	89.7	116.4	155.3	194.1	230.5	269.3	300.8	308.1	315.4
82.5°	41.3	43.7	58.3	84.9	111.6	138.3	177.1	203.8	232.9	235.4	240.1
85°	21.8	24.3	36.4	55.8	75.2	84.9	87.3	82.4	89.7	84.9	97.0
87.5°	7.3	7.3	12.1	9.7	9.7	12.1	14.6	14.6	19.4	19.4	19.4
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°	3580.9	3580.9	3580.9	3580.9	3580.9	3580.9	3580.9	3580.9	3580.9	3580.9	3580.9
2.5°	3600.3	3600.3	3559.1	3481.5	3469.3	3437.8	3408.6	3406.3	3384.4	3365.0	3355.3
5°	3668.3	3593.0	3532.4	3462.0	3379.6	3340.7	3297.1	3248.6	3229.2	3248.6	3246.2
7.5°	3745.9	3682.8	3500.9	3369.9	3275.2	3236.5	3187.9	3136.9	3141.8	3141.8	3107.8
10°	3821.1	3736.2	3445.0	3277.6	3139.4	3110.2	3083.6	3103.0	3127.2	3132.1	3110.2
12.5°	3947.3	3755.6	3418.3	3185.5	3098.1	3035.1	3052.1	3105.4	3156.4	3141.8	3158.8
15°	4041.8	3772.6	3297.1	3090.8	2981.7	3010.8	3071.5	3107.8	3192.8	3183.1	3200.0
17.5°	4134.1	3782.3	3178.2	2964.7	2918.6	2998.7	3044.8	3149.1	3175.8	3234.0	3255.8
20°	4323.3	3801.7	3056.9	2887.1	2872.5	2964.7	3044.8	3093.2	3151.5	3202.5	3202.5
22.5°	4420.3	3792.0	2976.8	2785.1	2831.2	2889.5	2962.2	3044.8	3044.8	3093.2	3095.7
25°	4541.6	3753.2	2850.7	2736.7	2770.6	2826.4	2908.9	2879.8	2911.4	2911.4	2950.1
27.5°	4679.9	3670.7	2741.5	2649.3	2717.2	2777.8	2790.0	2770.6	2734.2	2729.4	2714.8
30°	4791.6	3568.8	2661.4	2620.2	2676.0	2710.0	2671.1	2629.9	2566.8	2562.0	2528.0
32.5°	4944.4	3442.6	2562.0	2547.4	2610.5	2612.9	2600.8	2537.7	2445.5	2406.7	2367.9
35°	5201.5	3369.9	2486.7	2508.6	2528.0	2520.7	2498.9	2431.0	2338.7	2321.8	2307.2
37.5°	5390.8	3316.5	2409.1	2435.8	2452.8	2462.5	2397.0	2321.8	2324.2	2290.3	2280.6
40°	5604.3	3282.5	2346.0	2358.2	2360.6	2392.1	2312.0	2275.7	2292.7	2270.9	2285.4
42.5°	5878.5	3292.2	2280.6	2270.9	2316.9	2304.8	2266.0	2217.5	2227.2	2161.6	2171.3
45°	6024.0	3357.7	2241.7	2198.0	2249.0	2246.6	2195.6	2149.5	2091.3	1965.2	1970.0
47.5°	6121.0	3374.7	2149.5	2120.4	2173.8	2205.3	2147.1	2040.3	1957.9	1868.1	1846.2
50°	6220.5	3406.3	2105.9	2045.2	2067.0	2142.2	2069.5	1967.6	1887.5	1807.5	1819.6
52.5°	6307.8	3466.9	2020.9	1931.2	1970.0	2052.5	2013.6	1889.9	1802.6	1737.1	1717.7
55°	6696.1	3602.7	1877.8	1761.4	1853.5	1957.9	1936.0	1785.6	1691.0	1657.1	1652.2
56°	6756.7	3607.6	1802.6	1703.1	1788.1	1926.3	1899.6	1739.5	1654.6	1601.2	1603.7
57.5°	6766.4	3549.4	1695.8	1649.8	1722.5	1880.2	1846.2	1703.1	1586.7	1538.1	1523.6
60°	5953.6	2770.6	1562.4	1533.3	1618.2	1739.5	1727.4	1603.7	1472.7	1416.8	1443.5
62.5°	4058.8	2030.6	1458.1	1453.2	1496.9	1615.8	1584.2	1472.7	1363.4	1327.1	1310.1
65°	2363.0	1540.6	1356.2	1336.8	1373.1	1436.3	1458.1	1341.7	1227.6	1203.3	1196.0
67.5°	1395.0	1273.7	1225.2	1193.6	1181.5	1220.3	1237.3	1169.4	1055.3	1021.4	1050.5
70°	1167.0	1133.0	1135.4	1082.0	1052.9	1026.3	1011.7	951.0	856.4	812.8	800.6
72.5°	1006.9	992.3	982.6	934.0	907.3	846.7	783.6	722.9	652.6	616.2	618.6
75°	769.1	764.2	769.1	744.8	698.7	650.2	591.9	514.4	461.0	414.8	424.5
77.5°	458.5	473.1	480.4	470.7	451.2	407.6	371.2	320.2	269.3	232.9	228.1
80°	315.4	327.5	339.7	327.5	308.1	276.6	237.7	199.0	162.6	143.1	138.3
82.5°	240.1	252.3	259.6	247.4	223.2	189.3	162.6	135.9	106.7	87.3	82.4
85°	87.3	99.4	97.0	116.4	126.1	121.3	104.3	80.0	60.7	43.7	41.3
87.5°	24.3	21.8	24.3	24.3	24.3	21.8	19.4	19.4	19.4	12.1	9.7
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)