

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: P647454

Luminaire Tested: **GALN-SA5D-835-U-T2-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P647454
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-SA5D-835-U-T2-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 3500K, 1200mA 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: 25444.4 lumens
Efficiency: N/A
Efficacy: 82.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

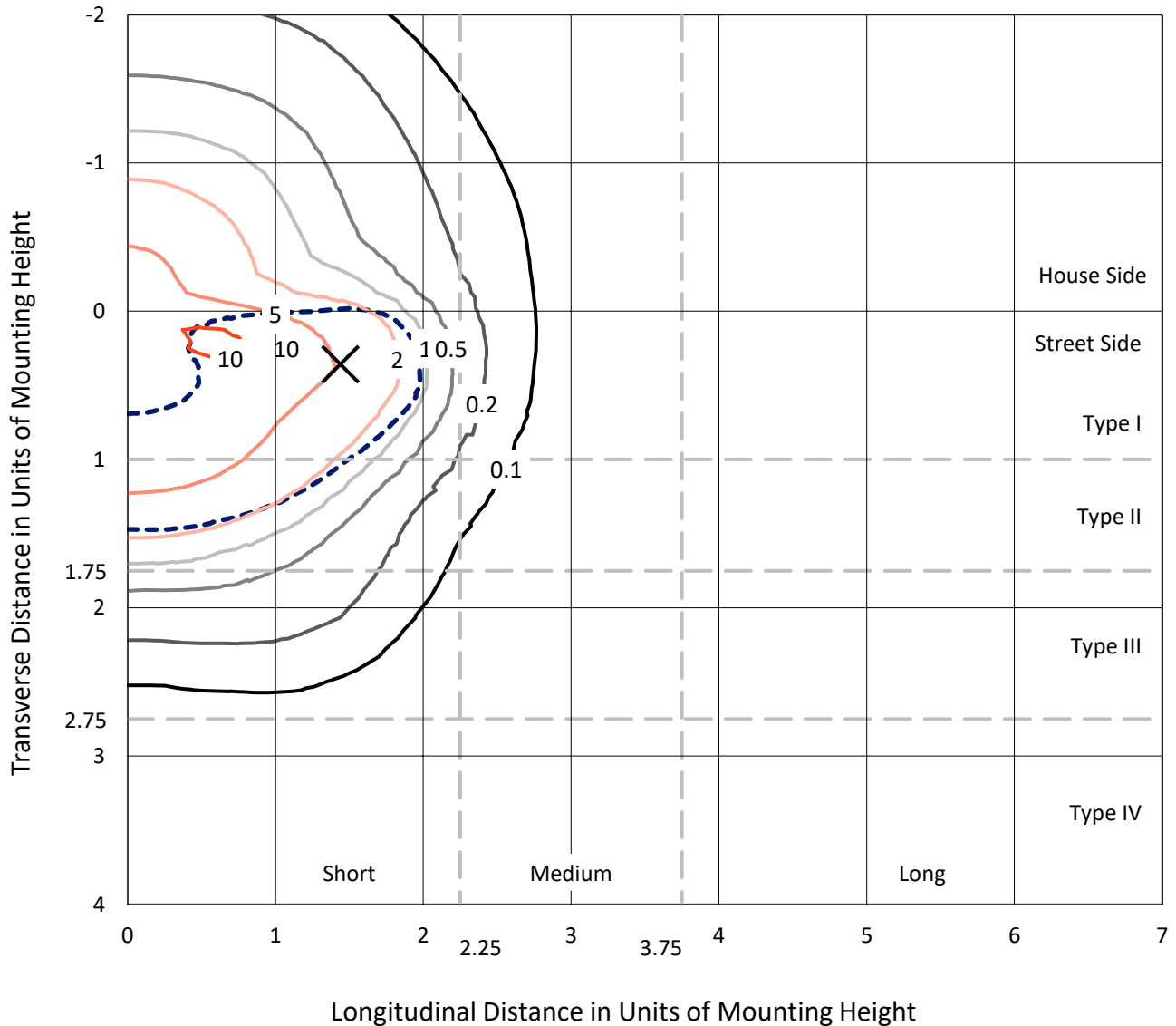
Input Watts (W): 309
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

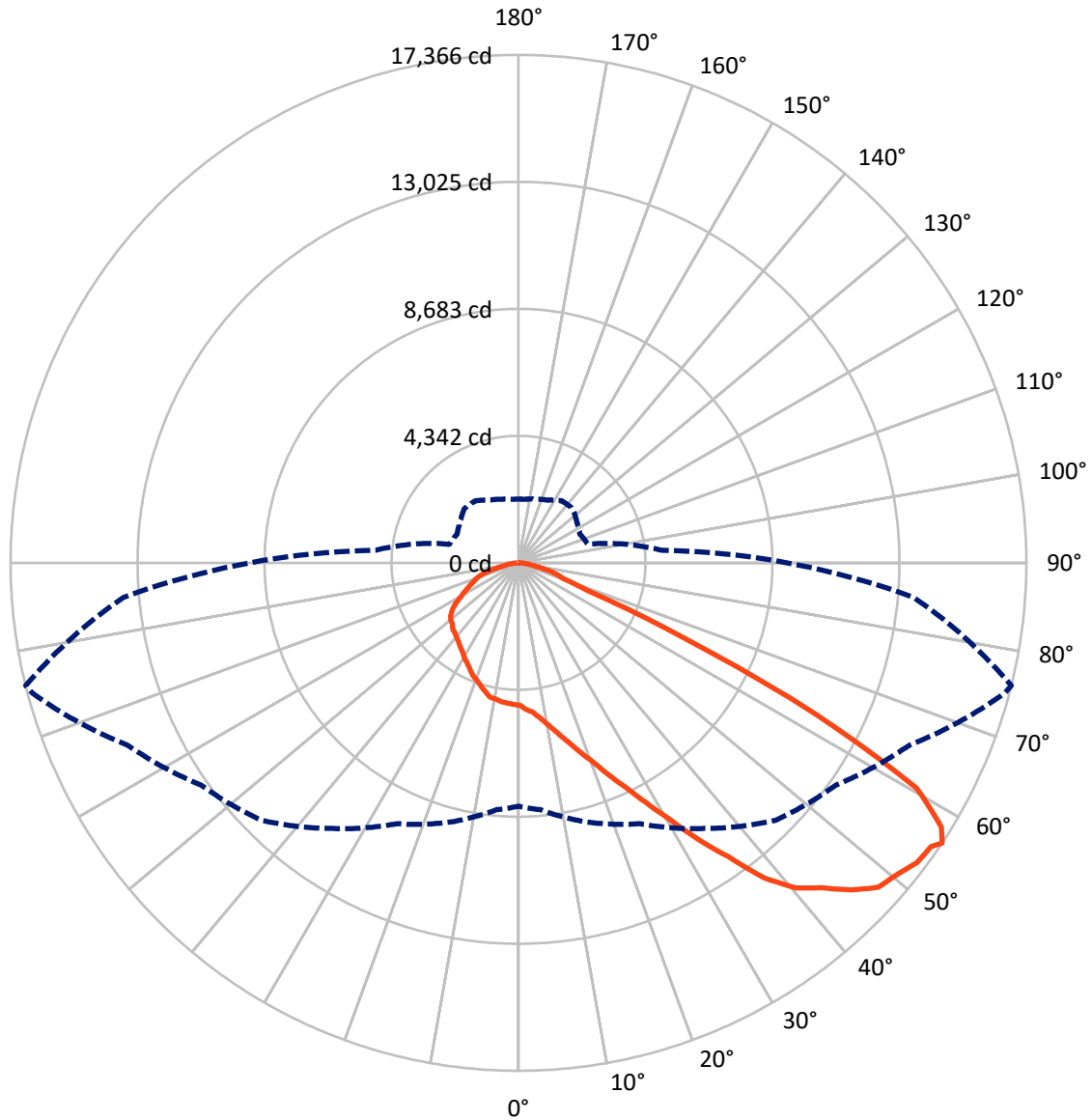
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.8 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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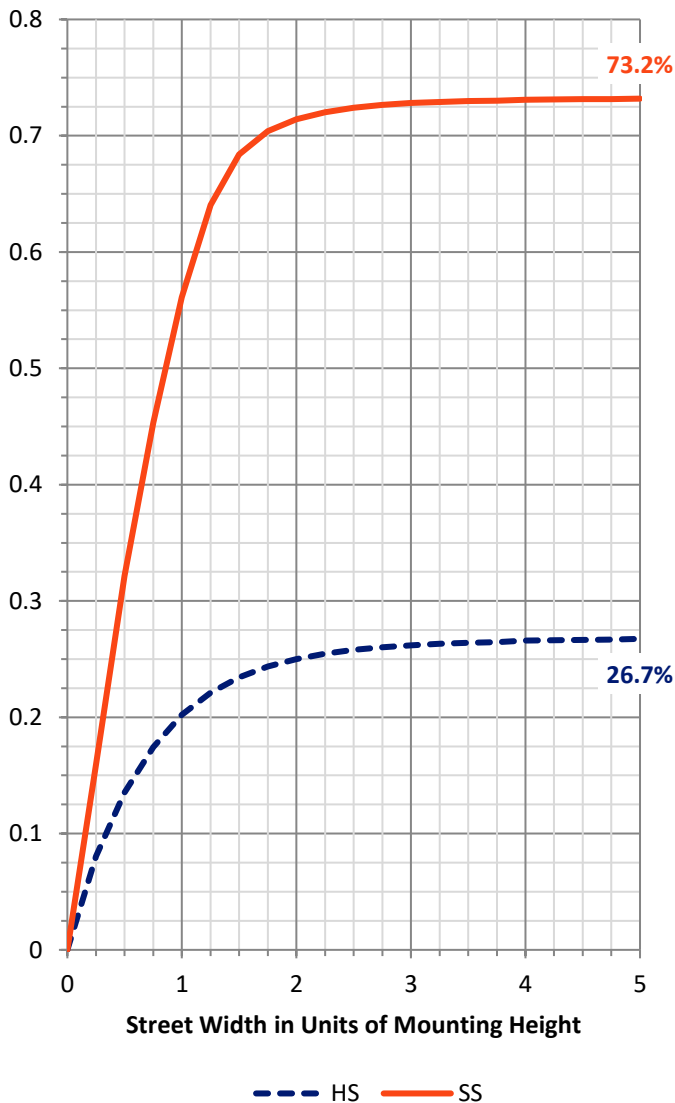
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6841.2	0.0	6841.2
	% Fixture	26.9	0.0	26.9
Street Side	Lumens	18603.1	0.0	18603.1
	% Fixture	73.1	0.0	73.1
Total	Lumens	25444.4	0.0	25444.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	482.8	1.9
10°-20°	1516.6	6.0
20°-30°	2652.4	10.4
30°-40°	4152.9	16.3
40°-50°	6041.3	23.7
50°-60°	6639.8	26.1
60°-70°	2963.7	11.6
70°-80°	856.0	3.4
80°-90°	138.9	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°	25444.4	100.0
0°-180°	25444.4	100.0



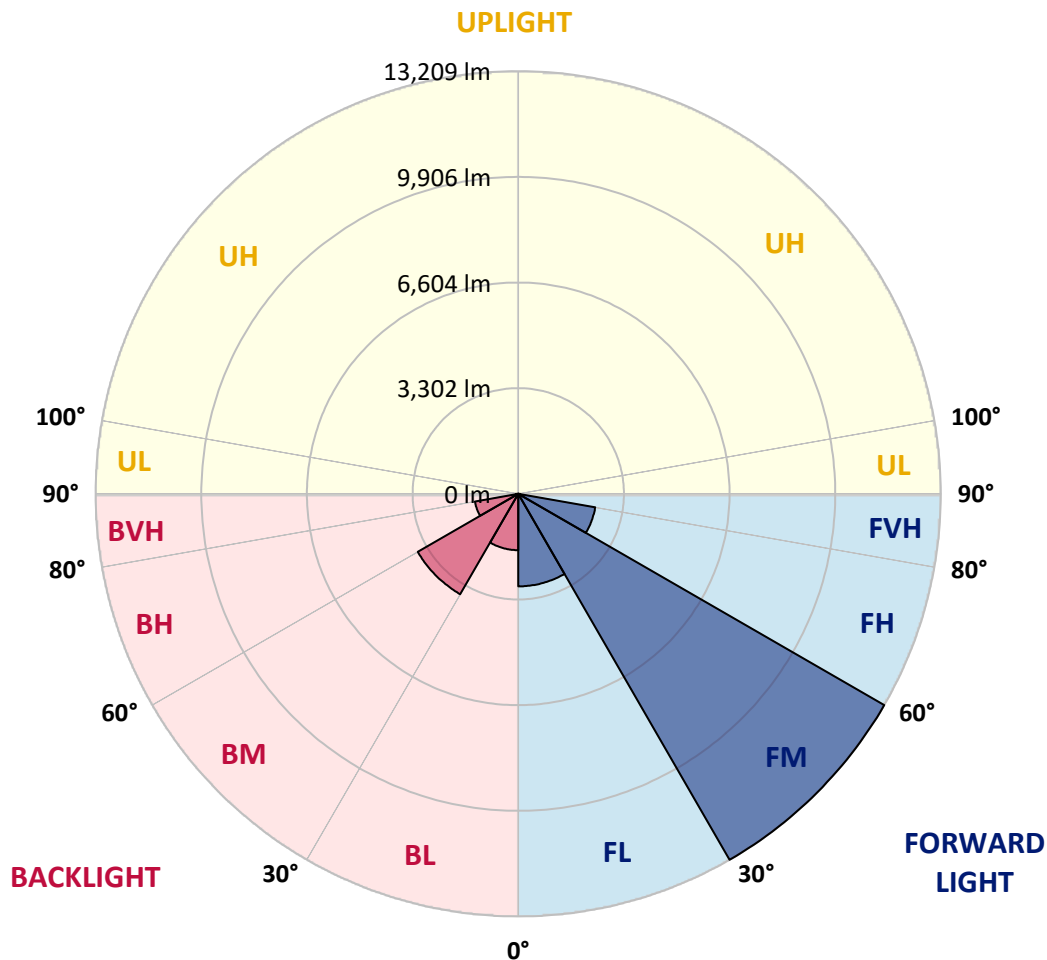
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2891.5	11.4			
FM (30°-60°)	13208.6	51.9			
FH (60°-80°)	2443.3	9.6			G2/5000
FVH (80°-90°)	59.8	0.2			G1/100
BL (0°-30°)	1760.4	6.9	B3/2500		
BM (30°-60°)	3625.3	14.2	B3/5000		
BH (60°-80°)	1376.5	5.4	B3/2500		G3/2500
BVH (80°-90°)	79.1	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: 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°	4868.5	4868.5	4868.5	4868.5	4868.5	4868.5	4868.5	4868.5	4868.5	4868.5	4868.5
2.5°	5363.2	5277.4	5270.8	5247.7	5261.0	5201.6	5138.9	5056.5	4970.7	5023.5	4898.1
5°	5739.2	5623.8	5669.9	5590.8	5600.7	5521.6	5392.9	5297.2	5191.7	5129.0	5039.9
7.5°	5871.2	5881.0	5914.1	5900.8	5834.9	5834.9	5749.1	5580.9	5396.2	5359.9	5211.5
10°	6049.3	6052.6	6016.3	6026.2	6118.5	6075.7	5999.8	5927.2	5689.7	5646.8	5383.0
12.5°	6111.9	6052.6	6111.9	6164.7	6273.6	6333.0	6316.5	6263.7	6009.7	5980.0	5594.1
15°	6121.9	6085.6	6135.0	6253.8	6349.4	6600.1	6725.4	6689.2	6352.7	6356.0	5831.6
17.5°	6075.7	6125.2	6144.9	6247.2	6468.2	6702.4	7065.2	7114.7	6837.6	6794.7	6131.8
20°	6138.3	6102.1	6128.5	6220.8	6514.3	6880.5	7355.4	7682.0	7292.8	7263.1	6441.8
22.5°	6379.1	6329.6	6323.0	6382.4	6593.5	6972.8	7662.2	8249.3	7846.9	7863.4	6827.7
25°	6567.1	6593.5	6570.5	6567.1	6699.0	7111.4	8067.9	8925.5	8599.0	8503.3	7282.9
27.5°	6890.4	6953.0	6906.8	6969.6	6939.9	7319.2	8358.1	9674.2	9410.3	9281.8	7695.2
30°	7339.0	7371.9	7329.0	7329.0	7240.0	7609.4	8622.0	10455.9	10347.1	10172.3	8180.1
32.5°	7929.4	7978.8	7893.1	7843.6	7830.4	8041.5	9097.1	11227.8	11412.5	11264.1	8823.2
35°	8711.1	8681.4	8579.2	8533.0	8354.8	8704.5	9802.8	12115.0	12600.0	12336.1	9601.7
37.5°	9400.5	9354.3	9347.7	9090.4	9133.3	9420.3	10403.2	12788.0	13751.0	13675.2	10423.0
40°	10043.6	10086.5	10155.8	10010.7	9944.7	10261.4	11102.5	13302.5	14644.9	14615.2	11056.3
42.5°	10733.1	10693.4	10815.5	10693.4	10594.5	11043.0	11861.1	13658.7	15430.0	15185.9	11719.2
45°	11732.5	11607.1	11650.0	11659.9	11587.3	11752.2	12174.4	13916.0	15980.8	15954.4	12204.2
47.5°	12566.9	12570.2	12497.7	12441.6	12220.6	12385.5	12524.1	14077.6	16614.1	16571.2	12392.1
50°	12877.0	12834.1	13045.2	13167.2	13180.5	12844.0	12797.8	14166.7	16947.3	16759.3	12580.1
52.5°	11762.1	11801.7	12134.9	12860.5	13279.4	13315.7	13117.8	14351.4	17082.5	17042.9	12731.9
55°	9466.5	9657.8	10205.3	11043.0	12035.9	13127.7	13464.1	14542.7	17155.1	17122.0	13404.7
56°	8321.9	8470.3	9182.8	9839.2	11085.9	12444.9	13246.4	14747.2	17211.1	17366.2	13563.0
57.5°	6699.0	6870.6	7381.8	8127.3	9598.4	11145.3	12646.1	14496.5	16993.4	17052.8	13678.5
60°	4189.0	4205.5	4819.0	5310.5	6346.1	7856.8	9651.2	12613.1	15726.8	15641.1	12286.6
62.5°	2747.5	2750.8	3308.3	3710.7	4182.4	4528.7	5679.9	8364.8	11603.8	11452.1	8747.4
65°	1929.5	1972.5	2404.5	2942.2	3133.5	2952.1	2915.8	4410.0	6481.4	6263.7	4700.3
67.5°	1411.7	1415.0	1797.6	2374.8	2651.9	2246.2	1824.0	2153.9	2566.1	2559.5	2177.0
70°	933.4	973.0	1266.6	1774.5	2091.2	1804.3	1490.9	1540.4	1632.7	1632.7	1619.6
72.5°	544.3	580.5	775.1	1124.8	1174.3	1128.1	1180.8	1319.4	1378.7	1375.4	1359.0
75°	310.1	326.5	369.4	468.4	583.8	689.4	867.5	999.4	1058.8	1095.1	1052.2
77.5°	181.4	191.3	217.7	267.2	303.5	372.7	471.7	564.0	643.2	633.3	639.9
80°	95.7	95.7	122.1	158.3	211.1	263.9	313.4	366.1	409.0	418.9	428.8
82.5°	56.1	59.4	79.2	115.4	151.7	188.0	240.8	277.1	316.6	319.9	326.5
85°	29.7	33.0	49.5	75.9	102.3	115.4	118.8	112.1	122.1	115.4	131.9
87.5°	9.9	9.9	16.5	13.2	13.2	16.5	19.8	19.8	26.4	26.4	26.4
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°	4868.5	4868.5	4868.5	4868.5	4868.5	4868.5	4868.5	4868.5	4868.5	4868.5	4868.5
2.5°	4894.8	4894.8	4838.8	4733.2	4716.7	4673.9	4634.3	4631.0	4601.3	4574.9	4561.7
5°	4987.2	4885.0	4802.5	4706.8	4594.7	4541.9	4482.5	4416.6	4390.2	4416.6	4413.3
7.5°	5092.7	5007.0	4759.6	4581.5	4452.8	4400.1	4334.1	4264.8	4271.4	4271.4	4225.2
10°	5195.0	5079.6	4683.7	4456.1	4268.1	4228.6	4192.3	4218.6	4251.6	4258.3	4228.6
12.5°	5366.5	5105.9	4647.5	4330.9	4212.1	4126.3	4149.4	4221.9	4291.2	4271.4	4294.5
15°	5495.2	5129.0	4482.5	4202.2	4053.7	4093.3	4175.8	4225.2	4340.7	4327.5	4350.6
17.5°	5620.5	5142.2	4320.9	4030.6	3968.0	4076.8	4139.5	4281.4	4317.6	4396.8	4426.5
20°	5877.7	5168.6	4156.0	3925.1	3905.3	4030.6	4139.5	4205.5	4284.7	4353.9	4353.9
22.5°	6009.7	5155.4	4047.2	3786.6	3849.2	3928.4	4027.4	4139.5	4139.5	4205.5	4208.8
25°	6174.7	5102.7	3875.6	3720.6	3766.8	3842.7	3954.8	3915.2	3958.1	3958.1	4010.8
27.5°	6362.7	4990.5	3727.2	3601.9	3694.2	3776.6	3793.2	3766.8	3717.3	3710.7	3690.9
30°	6514.3	4851.9	3618.3	3562.3	3638.1	3684.3	3631.6	3575.5	3489.8	3483.1	3437.0
32.5°	6722.1	4680.5	3483.1	3463.4	3549.1	3552.4	3535.9	3450.1	3324.8	3272.0	3219.2
35°	7071.8	4581.5	3380.8	3410.6	3437.0	3427.0	3397.4	3305.0	3179.7	3156.6	3136.8
37.5°	7329.0	4508.9	3275.3	3311.6	3334.7	3347.9	3258.8	3156.6	3159.9	3113.7	3100.5
40°	7619.3	4462.8	3189.6	3206.1	3209.4	3252.3	3143.4	3093.9	3117.0	3087.3	3107.1
42.5°	7992.1	4475.9	3100.5	3087.3	3150.0	3133.5	3080.7	3014.8	3027.9	2938.9	2952.1
45°	8189.9	4565.0	3047.7	2988.4	3057.6	3054.3	2985.0	2922.4	2843.2	2671.7	2678.3
47.5°	8321.9	4588.1	2922.4	2882.8	2955.4	2998.3	2919.1	2773.9	2661.8	2539.7	2510.1
50°	8457.1	4631.0	2863.0	2780.6	2810.3	2912.5	2813.6	2675.0	2566.1	2457.3	2473.8
52.5°	8575.9	4713.4	2747.5	2625.6	2678.3	2790.5	2737.7	2569.5	2450.7	2361.7	2335.3
55°	9103.6	4898.1	2553.0	2394.6	2520.0	2661.8	2632.1	2427.6	2299.0	2252.8	2246.2
56°	9186.1	4904.7	2450.7	2315.5	2430.9	2618.9	2582.6	2365.0	2249.5	2177.0	2180.3
57.5°	9199.2	4825.6	2305.6	2242.9	2341.9	2556.3	2510.1	2315.5	2157.2	2091.2	2071.4
60°	8094.3	3766.8	2124.2	2084.6	2200.1	2365.0	2348.5	2180.3	2002.1	1926.3	1962.6
62.5°	5518.3	2760.8	1982.3	1975.7	2035.1	2196.7	2153.9	2002.1	1853.7	1804.3	1781.2
65°	3212.6	2094.5	1843.8	1817.4	1866.9	1952.6	1982.3	1824.0	1669.0	1636.0	1626.1
67.5°	1896.6	1731.7	1665.7	1622.8	1606.3	1659.1	1682.2	1589.8	1434.8	1388.7	1428.2
70°	1586.5	1540.4	1543.7	1471.1	1431.5	1395.2	1375.4	1293.0	1164.3	1105.0	1088.4
72.5°	1368.8	1349.0	1335.9	1269.9	1233.6	1151.2	1065.3	982.9	887.3	837.8	841.1
75°	1045.6	1039.0	1045.6	1012.6	949.9	884.0	804.8	699.3	626.7	564.0	577.2
77.5°	623.4	643.2	653.1	639.9	613.5	554.1	504.6	435.4	366.1	316.6	310.1
80°	428.8	445.3	461.8	445.3	418.9	376.0	323.2	270.4	221.0	194.6	188.0
82.5°	326.5	343.0	352.9	336.5	303.5	257.3	221.0	184.7	145.2	118.8	112.1
85°	118.8	135.2	131.9	158.3	171.6	164.9	141.8	108.8	82.4	59.4	56.1
87.5°	33.0	29.7	33.0	33.0	33.0	29.7	26.4	26.4	26.4	16.5	13.2
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)