

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: P530424

Luminaire Tested: **GALN-SA5C-827-U-T2-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P530424
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-SA5C-827-U-T2-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 2700K, 1050mA 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: 21709 lumens
Efficiency: N/A
Efficacy: 80.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

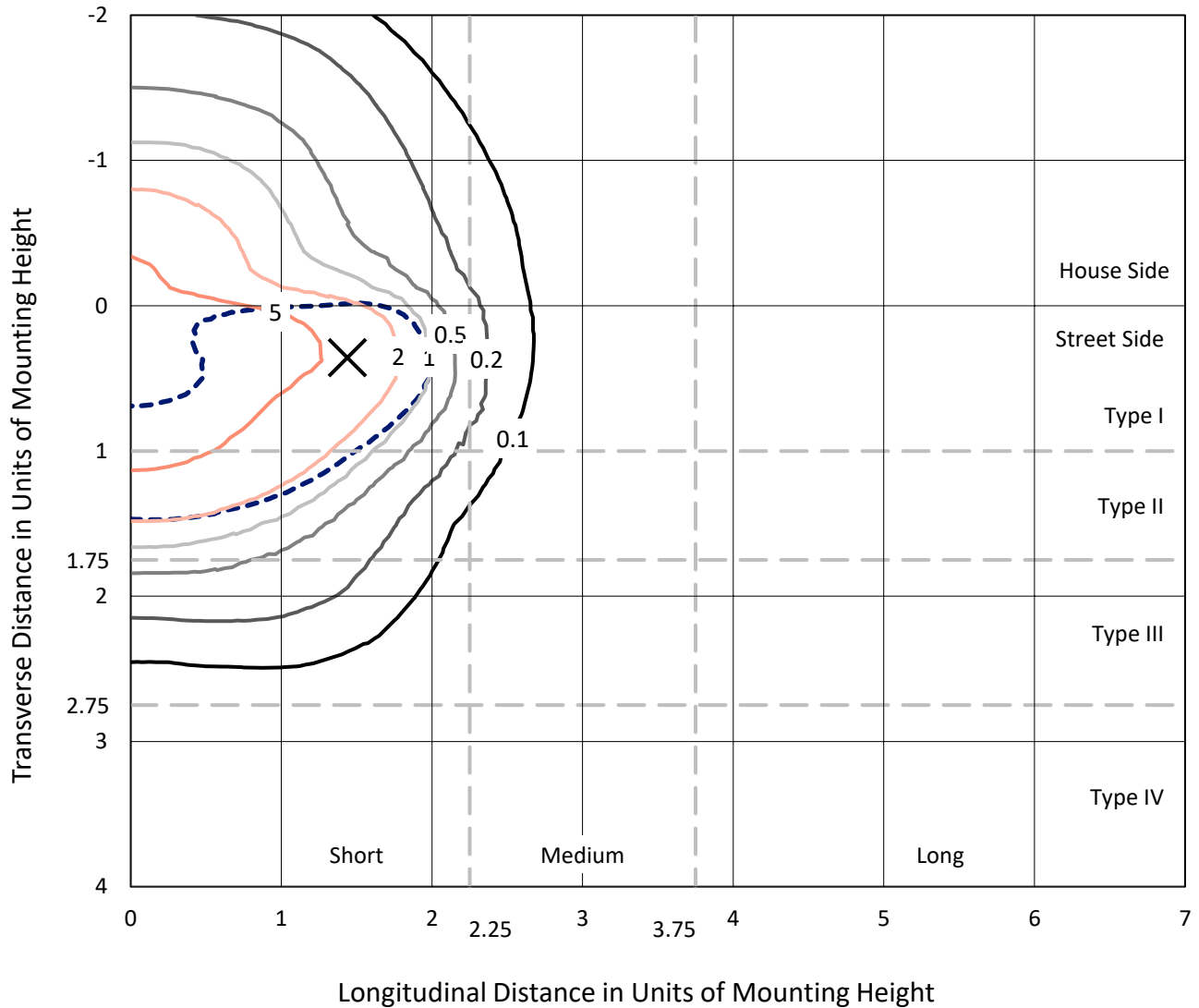
Input Watts (W): 269
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

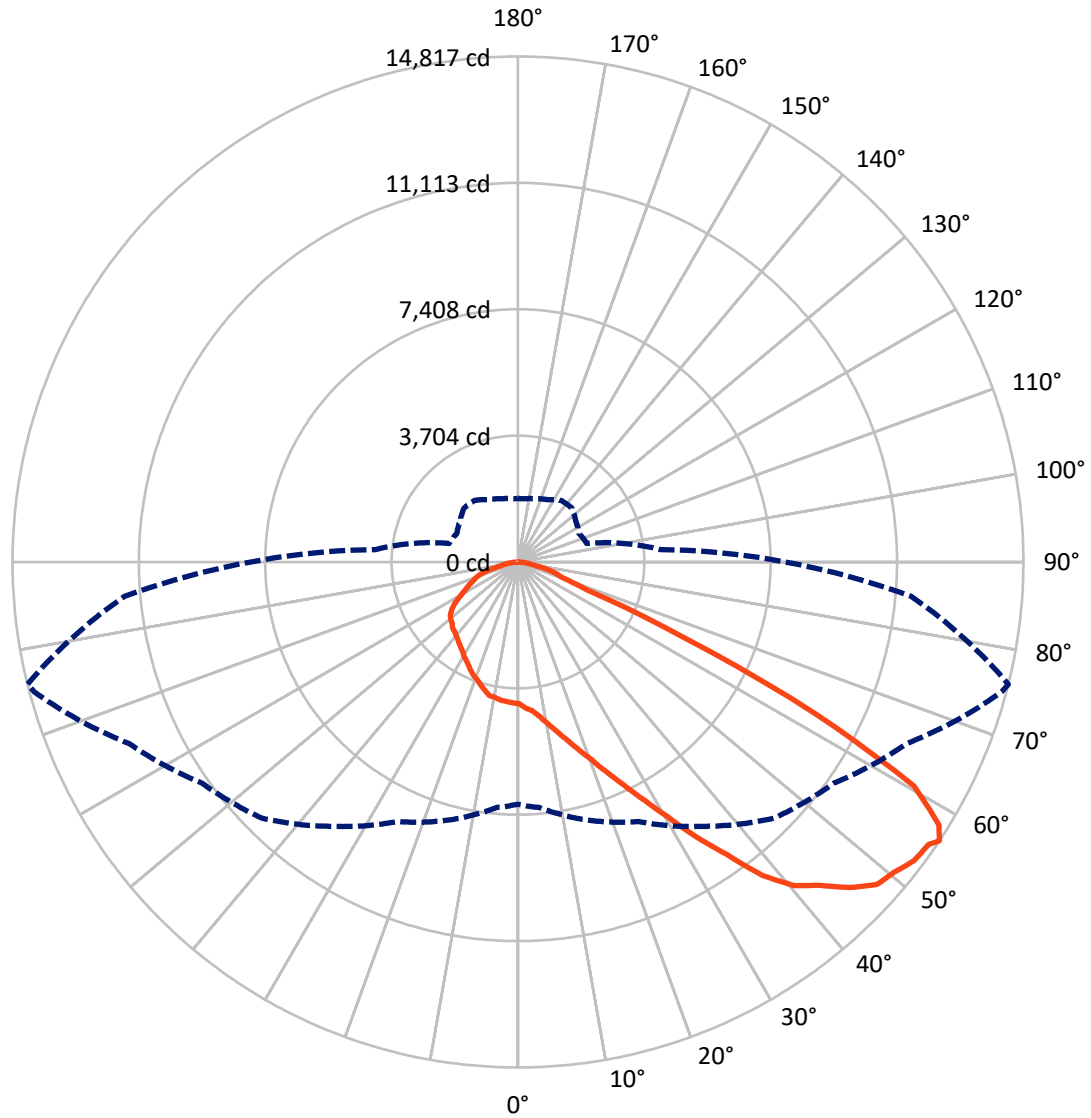
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.2 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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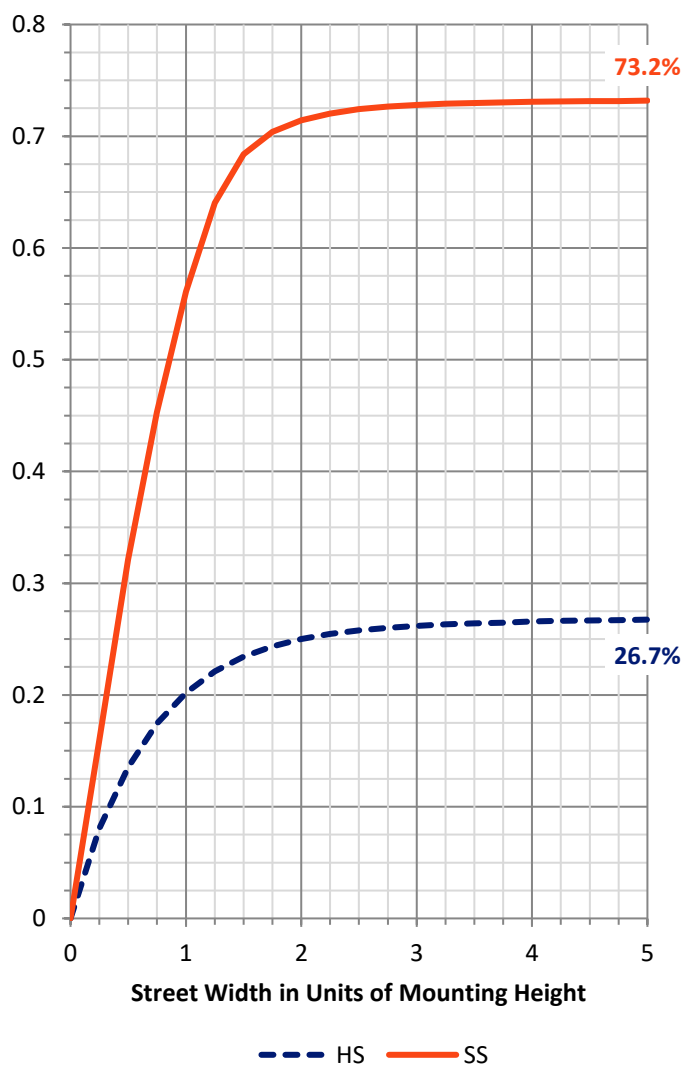
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5836.9	0.0	5836.9
	% Fixture	26.9	0.0	26.9
Street Side	Lumens	15872.1	0.0	15872.1
	% Fixture	73.1	0.0	73.1
Total	Lumens	21709.0	0.0	21709.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	411.9	1.9
10°-20°	1294.0	6.0
20°-30°	2263.0	10.4
30°-40°	3543.2	16.3
40°-50°	5154.4	23.7
50°-60°	5665.0	26.1
60°-70°	2528.6	11.6
70°-80°	730.4	3.4
80°-90°	118.5	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°	21709.0	100.0
0°-180°	21709.0	100.0

Coefficient of Utilization



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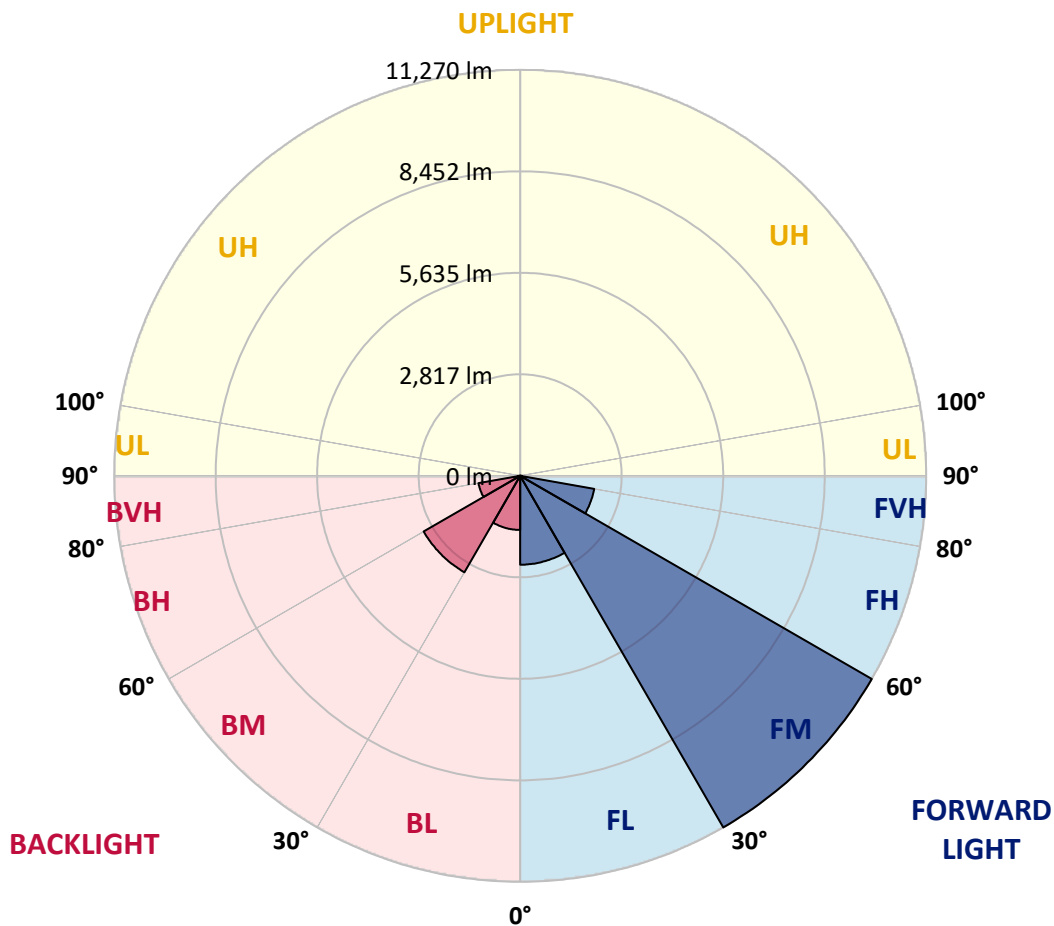
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2467.0	11.4			
FM (30°-60°)	11269.5	51.9			
FH (60°-80°)	2084.6	9.6			G2/5000
FVH (80°-90°)	51.0	0.2			G1/100
BL (0°-30°)	1501.9	6.9	B3/2500		
BM (30°-60°)	3093.1	14.2	B3/5000		
BH (60°-80°)	1174.4	5.4	B3/2500		G3/2500
BVH (80°-90°)	67.5	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°	4153.7	4153.7	4153.7	4153.7	4153.7	4153.7	4153.7	4153.7	4153.7	4153.7	4153.7
2.5°	4575.9	4502.7	4497.1	4477.4	4488.6	4438.0	4384.5	4314.1	4241.0	4286.0	4179.1
5°	4896.7	4798.2	4837.6	4770.0	4778.5	4710.9	4601.2	4519.6	4429.5	4376.1	4300.1
7.5°	5009.3	5017.7	5045.8	5034.6	4978.3	4978.3	4905.1	4761.6	4604.0	4573.1	4446.4
10°	5161.2	5164.0	5133.1	5141.5	5220.3	5183.7	5119.0	5057.1	4854.5	4817.9	4592.8
12.5°	5214.7	5164.0	5214.7	5259.7	5352.6	5403.2	5389.2	5344.1	5127.4	5102.1	4772.9
15°	5223.1	5192.2	5234.4	5335.7	5417.3	5631.2	5738.1	5707.2	5420.1	5422.9	4975.5
17.5°	5183.7	5225.9	5242.8	5330.1	5518.6	5718.4	6028.0	6070.2	5833.8	5797.2	5231.6
20°	5237.2	5206.2	5228.8	5307.6	5558.0	5870.4	6275.6	6554.2	6222.2	6196.8	5496.1
22.5°	5442.6	5400.4	5394.8	5445.4	5625.6	5949.2	6537.4	7038.3	6694.9	6709.0	5825.4
25°	5603.0	5625.6	5605.9	5603.0	5715.6	6067.4	6883.5	7615.2	7336.6	7255.0	6213.7
27.5°	5878.8	5932.3	5892.9	5946.4	5921.0	6244.7	7131.1	8254.0	8028.9	7919.1	6565.5
30°	6261.6	6289.7	6253.1	6253.1	6177.1	6492.3	7356.3	8921.0	8828.1	8678.9	6979.2
32.5°	6765.3	6807.5	6734.3	6692.1	6680.9	6861.0	7761.5	9579.5	9737.1	9610.4	7527.9
35°	7432.3	7406.9	7319.7	7280.3	7128.3	7426.6	8363.8	10336.5	10750.2	10525.1	8192.1
37.5°	8020.4	7981.0	7975.4	7755.9	7792.5	8037.3	8875.9	10910.6	11732.3	11667.6	8892.8
40°	8569.2	8605.8	8664.9	8541.1	8484.8	8754.9	9472.5	11349.6	12495.0	12469.7	9433.2
42.5°	9157.4	9123.6	9227.7	9123.6	9039.2	9421.9	10119.8	11653.5	13164.8	12956.5	9998.8
45°	10010.1	9903.1	9939.7	9948.1	9886.2	10026.9	10387.2	11873.1	13634.7	13612.2	10412.5
47.5°	10722.0	10724.9	10663.0	10615.1	10426.6	10567.3	10685.5	12010.9	14175.1	14138.5	10572.9
50°	10986.6	10950.0	11130.1	11234.2	11245.5	10958.4	10919.0	12086.9	14459.3	14298.9	10733.3
52.5°	10035.4	10069.2	10353.4	10972.5	11329.9	11360.9	11192.0	12244.5	14574.7	14540.9	10862.8
55°	8076.7	8239.9	8707.1	9421.9	10269.0	11200.5	11487.5	12407.7	14636.6	14608.4	11436.9
56°	7100.2	7226.8	7834.7	8394.7	9458.5	10617.9	11301.8	12582.2	14684.4	14816.7	11571.9
57.5°	5715.6	5861.9	6298.1	6934.2	8189.3	9509.1	10789.6	12368.3	14498.7	14549.3	11670.4
60°	3574.0	3588.1	4111.5	4530.8	5414.5	6703.4	8234.3	10761.4	13418.0	13344.9	10482.8
62.5°	2344.2	2347.0	2822.6	3166.0	3568.4	3863.9	4846.0	7136.8	9900.3	9770.9	7463.2
65°	1646.3	1682.9	2051.5	2510.3	2673.5	2518.7	2487.7	3762.6	5529.9	5344.1	4010.2
67.5°	1204.5	1207.3	1533.7	2026.2	2262.6	1916.5	1556.2	1837.7	2189.4	2183.8	1857.4
70°	796.4	830.2	1080.6	1514.0	1784.2	1539.4	1272.0	1314.2	1393.0	1393.0	1381.8
72.5°	464.3	495.3	661.3	959.6	1001.9	962.5	1007.5	1125.7	1176.3	1173.5	1159.4
75°	264.5	278.6	315.2	399.6	498.1	588.2	740.1	852.7	903.4	934.3	897.7
77.5°	154.8	163.2	185.7	227.9	258.9	318.0	402.4	481.2	548.8	540.3	546.0
80°	81.6	81.6	104.1	135.1	180.1	225.1	267.3	312.4	349.0	357.4	365.8
82.5°	47.8	50.7	67.5	98.5	129.5	160.4	205.4	236.4	270.2	273.0	278.6
85°	25.3	28.1	42.2	64.7	87.2	98.5	101.3	95.7	104.1	98.5	112.6
87.5°	8.4	8.4	14.1	11.3	11.3	14.1	16.9	16.9	22.5	22.5	22.5
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°	4153.7	4153.7	4153.7	4153.7	4153.7	4153.7	4153.7	4153.7	4153.7	4153.7	4153.7
2.5°	4176.3	4176.3	4128.4	4038.4	4024.3	3987.7	3953.9	3951.1	3925.8	3903.3	3892.0
5°	4255.0	4167.8	4097.5	4015.8	3920.2	3875.1	3824.5	3768.2	3745.7	3768.2	3765.4
7.5°	4345.1	4271.9	4060.9	3908.9	3799.2	3754.1	3697.8	3638.7	3644.4	3644.4	3605.0
10°	4432.3	4333.8	3996.1	3802.0	3641.6	3607.8	3576.8	3599.3	3627.5	3633.1	3607.8
12.5°	4578.7	4356.4	3965.2	3695.0	3593.7	3520.5	3540.2	3602.2	3661.3	3644.4	3664.1
15°	4688.4	4376.1	3824.5	3585.3	3458.6	3492.4	3562.8	3605.0	3703.5	3692.2	3711.9
17.5°	4795.4	4387.3	3686.6	3438.9	3385.5	3478.3	3531.8	3652.8	3683.8	3751.3	3776.6
20°	5014.9	4409.8	3545.9	3348.9	3332.0	3438.9	3531.8	3588.1	3655.6	3714.7	3714.7
22.5°	5127.4	4398.6	3453.0	3230.7	3284.2	3351.7	3436.1	3531.8	3531.8	3588.1	3590.9
25°	5268.2	4353.5	3306.7	3174.4	3213.8	3278.5	3374.2	3340.4	3377.0	3377.0	3422.1
27.5°	5428.6	4257.9	3180.0	3073.1	3151.9	3222.2	3236.3	3213.8	3171.6	3166.0	3149.1
30°	5558.0	4139.7	3087.2	3039.3	3104.0	3143.4	3098.4	3050.6	2977.4	2971.8	2932.4
32.5°	5735.3	3993.3	2971.8	2954.9	3028.1	3030.9	3016.8	2943.6	2836.7	2791.7	2746.6
35°	6033.6	3908.9	2884.5	2909.9	2932.4	2923.9	2898.6	2819.8	2712.9	2693.2	2676.3
37.5°	6253.1	3847.0	2794.5	2825.4	2845.1	2856.4	2780.4	2693.2	2696.0	2656.6	2645.3
40°	6500.8	3807.6	2721.3	2735.4	2738.2	2774.8	2681.9	2639.7	2659.4	2634.1	2651.0
42.5°	6818.8	3818.9	2645.3	2634.1	2687.5	2673.5	2628.4	2572.2	2583.4	2507.4	2518.7
45°	6987.6	3894.8	2600.3	2549.7	2608.8	2605.9	2546.8	2493.4	2425.8	2279.5	2285.1
47.5°	7100.2	3914.5	2493.4	2459.6	2521.5	2558.1	2490.6	2366.7	2271.0	2166.9	2141.6
50°	7215.6	3951.1	2442.7	2372.4	2397.7	2484.9	2400.5	2282.3	2189.4	2096.6	2110.6
52.5°	7316.9	4021.5	2344.2	2240.1	2285.1	2380.8	2335.8	2192.3	2090.9	2015.0	1992.4
55°	7767.2	4179.1	2178.2	2043.1	2150.0	2271.0	2245.7	2071.2	1961.5	1922.1	1916.5
56°	7837.5	4184.7	2090.9	1975.6	2074.1	2234.5	2203.5	2017.8	1919.3	1857.4	1860.2
57.5°	7848.8	4117.2	1967.1	1913.6	1998.1	2181.0	2141.6	1975.6	1840.5	1784.2	1767.3
60°	6906.0	3213.8	1812.3	1778.6	1877.1	2017.8	2003.7	1860.2	1708.2	1643.5	1674.4
62.5°	4708.1	2355.5	1691.3	1685.7	1736.4	1874.2	1837.7	1708.2	1581.6	1539.4	1519.7
65°	2741.0	1787.0	1573.1	1550.6	1592.8	1666.0	1691.3	1556.2	1424.0	1395.8	1387.4
67.5°	1618.2	1477.4	1421.2	1384.6	1370.5	1415.5	1435.2	1356.4	1224.2	1184.8	1218.5
70°	1353.6	1314.2	1317.0	1255.1	1221.4	1190.4	1173.5	1103.2	993.4	942.8	928.7
72.5°	1167.9	1151.0	1139.7	1083.5	1052.5	982.2	909.0	838.6	757.0	714.8	717.6
75°	892.1	886.5	892.1	864.0	810.5	754.2	686.7	596.6	534.7	481.2	492.5
77.5°	531.9	548.8	557.2	546.0	523.4	472.8	430.6	371.5	312.4	270.2	264.5
80°	365.8	379.9	394.0	379.9	357.4	320.8	275.8	230.8	188.6	166.0	160.4
82.5°	278.6	292.7	301.1	287.0	258.9	219.5	188.6	157.6	123.8	101.3	95.7
85°	101.3	115.4	112.6	135.1	146.3	140.7	121.0	92.9	70.4	50.7	47.8
87.5°	28.1	25.3	28.1	28.1	28.1	25.3	22.5	22.5	22.5	14.1	11.3
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)