

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: P530816

Luminaire Tested: **GALN-SA6A-740-U-T2R-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P530816  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-10)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA6A-740-U-T2R-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
ROADWAY OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 23830 lumens  
Efficiency: N/A  
Efficacy: 130.9 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G2

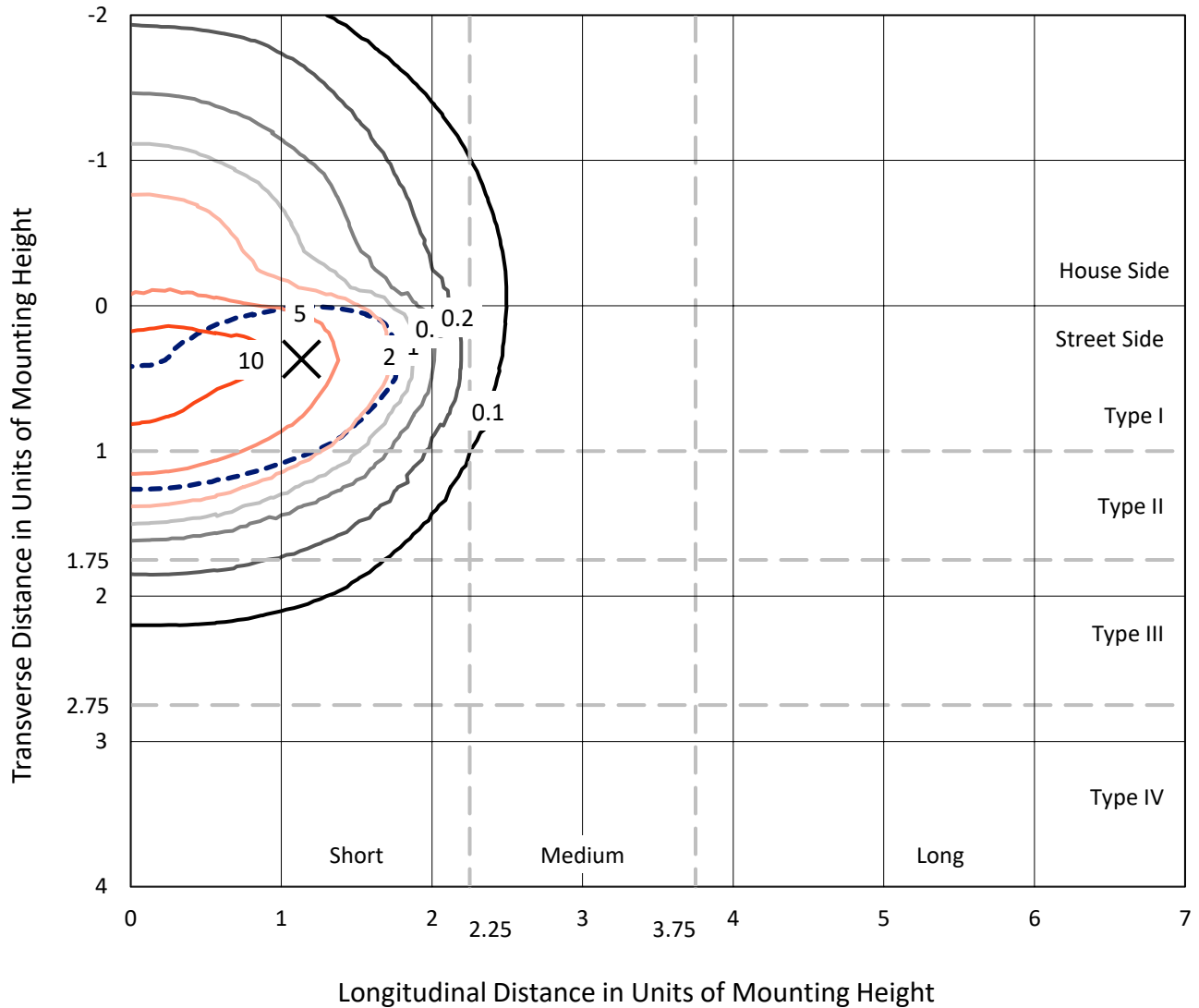
Input Watts (W): 182  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

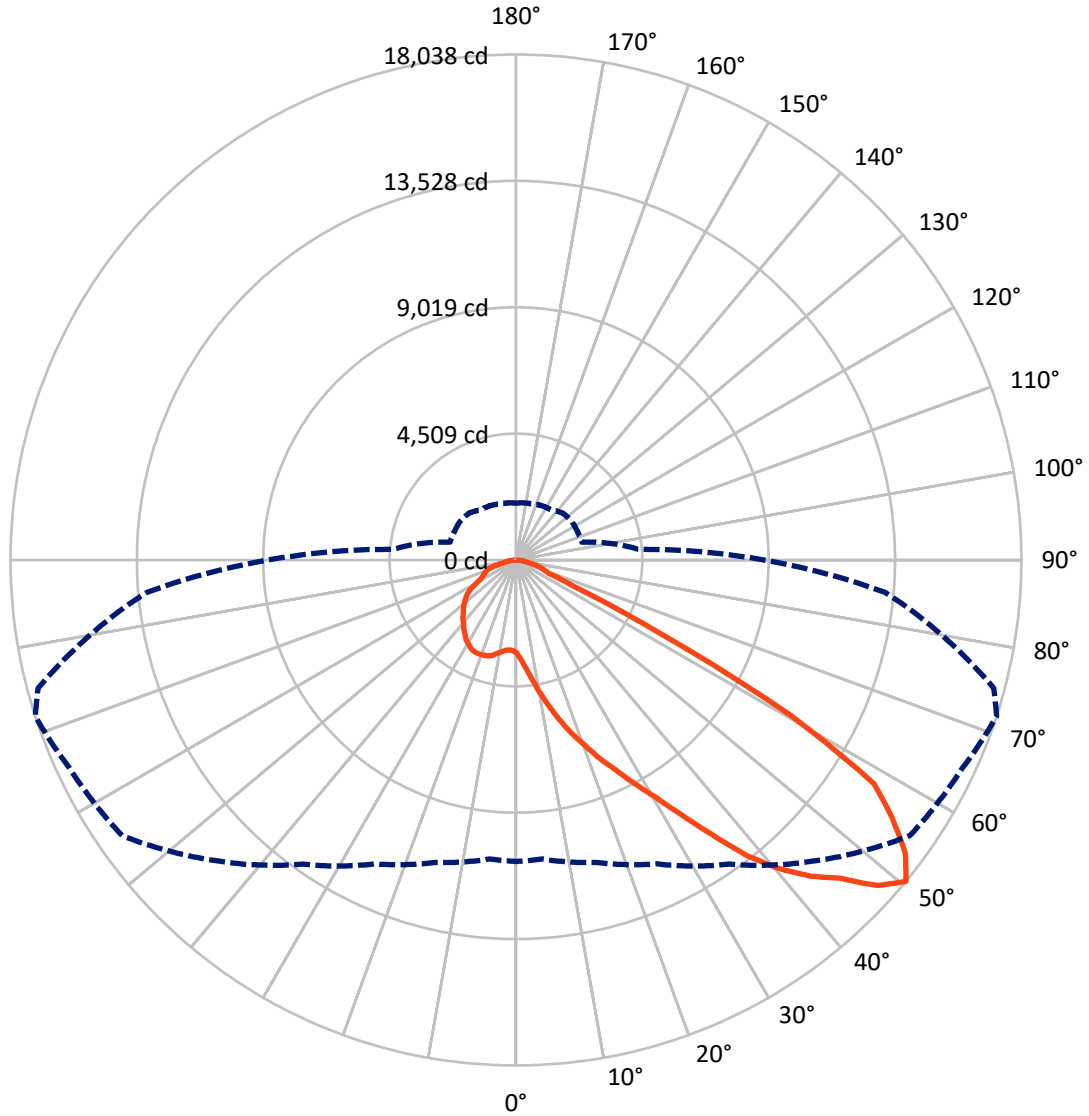
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.9 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 72-Deg Lateral    - - - Horizontal Cone Through 50-Deg Vertical

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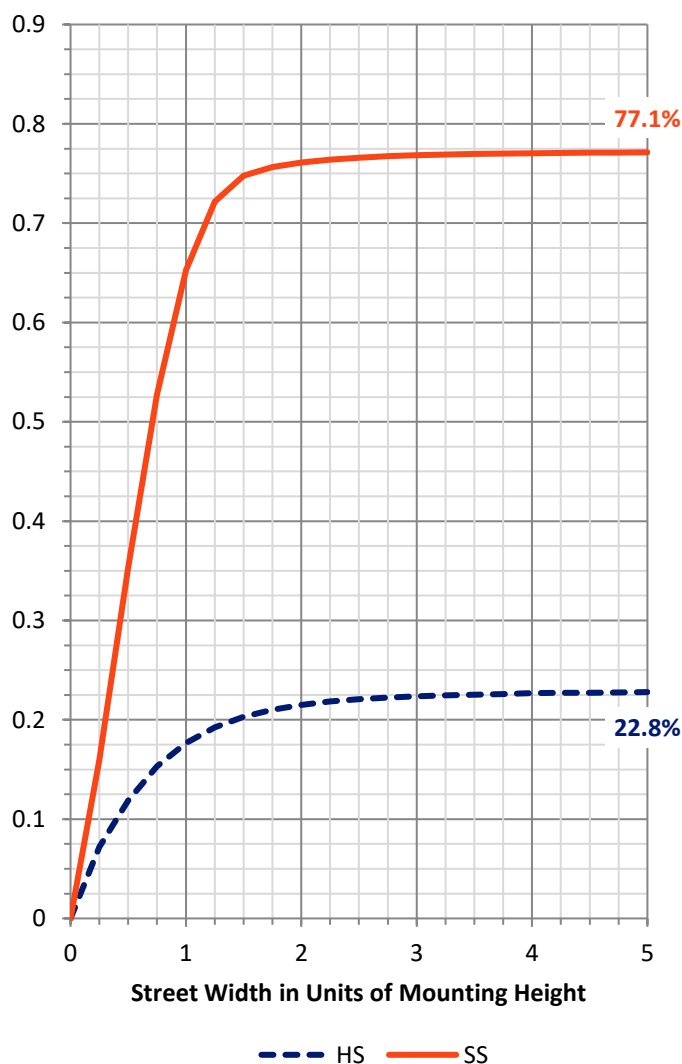
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5459.6	0.0	5459.6
	% Fixture	22.9	0.0	22.9
<b>Street Side</b>	Lumens	18370.4	0.0	18370.4
	% Fixture	77.1	0.0	77.1
<b>Total</b>	Lumens	23830.0	0.0	23830.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	390.2	1.6
10°-20°	1458.7	6.1
20°-30°	2828.3	11.9
30°-40°	4685.6	19.7
40°-50°	6556.1	27.5
50°-60°	5530.9	23.2
60°-70°	1685.8	7.1
70°-80°	591.4	2.5
80°-90°	102.8	0.4
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°	23830.0	100.0
0°-180°	23830.0	100.0

**Coefficient of Utilization**



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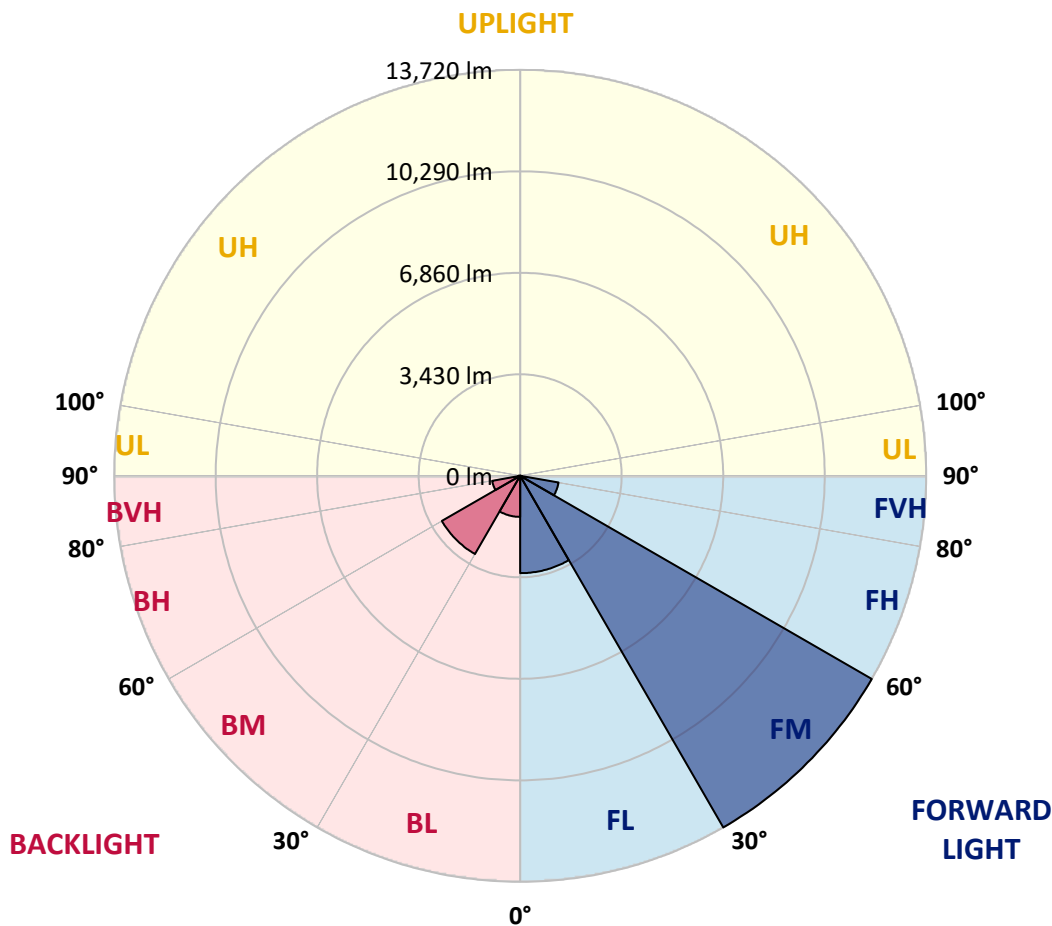
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3289.4	13.8			
FM (30°-60°)	13719.6	57.6			
FH (60°-80°)	1315.4	5.5			G1/1800
FVH (80°-90°)	46.1	0.2			G1/100
BL (0°-30°)	1387.9	5.8	B3/2500		
BM (30°-60°)	3053.1	12.8	B3/5000		
BH (60°-80°)	961.9	4.0	B2/1000		G2/1000
BVH (80°-90°)	56.8	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G2**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	3317.3	3317.3	3317.3	3317.3	3317.3	3317.3	3317.3	3317.3	3317.3	3317.3	3317.3
2.5°	4266.8	4240.3	4160.7	4134.1	4039.8	3868.8	3809.8	3635.8	3562.1	3494.3	3414.6
5°	5396.2	5272.4	5263.5	5113.1	4894.9	4768.1	4390.7	4137.1	3904.1	3786.2	3568.0
7.5°	6115.7	6118.6	6118.6	5994.8	5820.8	5499.4	5160.3	4703.2	4352.3	4178.4	3806.8
10°	6799.8	6740.8	6708.4	6696.6	6578.7	6266.1	5903.4	5337.2	4856.6	4653.1	3986.7
12.5°	7283.4	7233.3	7307.0	7268.7	7183.1	6979.7	6637.6	5991.9	5390.3	5116.1	4275.7
15°	7513.4	7548.8	7607.8	7713.9	7675.6	7598.9	7221.5	6664.2	5965.3	5655.7	4532.2
17.5°	7867.3	7769.9	7840.7	7973.4	8079.6	8044.2	7828.9	7150.7	6534.4	6154.0	4877.2
20°	8114.9	8058.9	8094.3	8247.6	8327.3	8527.8	8415.7	7787.6	7079.9	6678.9	5284.2
22.5°	8822.6	8740.1	8625.1	8648.7	8678.2	8819.7	8846.2	8486.5	7713.9	7289.3	5670.4
25°	9695.5	9618.8	9483.2	9344.6	9259.1	9232.5	9323.9	9035.0	8321.4	7882.0	6086.2
27.5°	10656.8	10527.0	10441.5	10155.5	9925.5	9890.1	9845.9	9689.6	9040.9	8566.1	6555.1
30°	11591.5	11488.3	11373.3	10916.3	10677.4	10639.1	10420.9	10465.1	9822.3	9294.4	7085.8
32.5°	12299.2	12308.1	12045.6	11700.6	11476.5	11273.1	11193.4	11320.2	10824.8	10400.2	7678.5
35°	12871.3	12897.8	12647.2	12334.6	12092.8	12234.3	12199.0	12257.9	12022.0	11503.1	8368.5
37.5°	13428.6	13295.9	13027.6	12877.2	12750.4	12983.3	13284.1	13334.2	13378.5	12768.1	9170.6
40°	13520.0	13531.8	13375.5	13481.7	13322.4	13673.3	14372.2	14307.3	14487.2	13953.5	10040.5
42.5°	13390.3	13416.8	13478.7	13629.1	14012.4	14434.1	15472.1	15206.7	15424.9	14950.1	10886.8
45°	13177.9	13068.8	13145.5	13717.6	14381.0	15318.7	16477.6	16271.2	16200.4	15802.3	11895.2
47.5°	12163.6	12275.6	12514.5	13219.2	14215.9	15472.1	17191.2	17144.0	17356.3	17076.2	12812.3
50°	10757.0	10712.8	11172.8	11966.0	13251.7	15171.3	17152.9	17580.4	18037.5	17648.2	13222.2
52.5°	8056.0	8291.9	8687.0	9671.9	11506.0	13531.8	16315.4	17029.0	17400.5	17318.0	12891.9
55°	5092.5	5163.3	5402.1	6572.8	8224.1	10860.2	13985.9	15640.1	16303.6	16613.2	12588.2
57.5°	2474.0	2341.3	2633.2	3573.9	4750.4	7304.0	10786.5	13623.2	15065.1	15625.4	11927.7
60°	1291.6	1341.7	1456.7	1792.8	2456.3	3792.1	6723.1	9079.2	11281.9	12142.9	9040.9
62.5°	1070.4	1088.1	1164.8	1332.8	1633.6	2182.1	3432.3	4426.1	5753.0	6528.5	5142.6
65°	908.2	917.1	999.6	1111.7	1303.3	1536.3	1766.3	1848.9	2238.1	2297.1	1828.2
67.5°	757.8	766.7	855.1	961.3	1085.1	1147.1	1206.0	1200.1	1244.4	1226.7	1223.7
70°	583.9	592.7	684.1	796.2	858.1	822.7	1005.5	1046.8	1064.5	1079.2	1102.8
72.5°	421.7	439.4	510.1	589.7	557.3	639.9	828.6	890.5	914.1	923.0	952.4
75°	306.7	312.6	330.3	306.7	353.8	445.3	583.9	660.5	690.0	698.9	743.1
77.5°	135.6	138.6	141.5	176.9	227.1	277.2	348.0	409.9	451.2	463.0	474.7
80°	70.8	73.7	91.4	120.9	162.2	203.5	253.6	289.0	315.5	318.5	330.3
82.5°	44.2	47.2	64.9	85.5	115.0	150.4	185.8	215.3	235.9	238.8	241.8
85°	20.6	26.5	38.3	53.1	76.7	97.3	100.3	85.5	91.4	94.4	88.5
87.5°	5.9	8.8	11.8	8.8	11.8	11.8	14.7	17.7	17.7	17.7	20.6
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°	3317.3	3317.3	3317.3	3317.3	3317.3	3317.3	3317.3	3317.3	3317.3	3317.3	3317.3
2.5°	3370.4	3343.9	3240.7	3202.3	3102.1	3119.8	3066.7	3063.7	3052.0	3049.0	3046.1
5°	3453.0	3370.4	3246.6	3152.2	3096.2	3090.3	3052.0	3052.0	3063.7	3072.6	3052.0
7.5°	3588.6	3494.3	3284.9	3196.4	3146.3	3137.5	3110.9	3090.3	3116.8	3108.0	3084.4
10°	3744.9	3579.8	3358.6	3282.0	3199.4	3178.7	3178.7	3187.6	3143.4	3158.1	3134.5
12.5°	3918.9	3697.7	3453.0	3364.5	3267.2	3255.4	3249.5	3184.6	3208.2	3196.4	3137.5
15°	4140.0	3833.4	3573.9	3423.5	3340.9	3287.9	3211.2	3199.4	3184.6	3155.2	3128.6
17.5°	4378.9	3980.8	3629.9	3441.2	3317.3	3279.0	3220.0	3158.1	3113.9	3119.8	3099.1
20°	4582.4	4116.4	3650.5	3458.9	3299.6	3225.9	3134.5	3096.2	3049.0	3046.1	3043.1
22.5°	4824.1	4299.3	3680.0	3411.7	3246.6	3169.9	3108.0	3040.2	3007.7	2966.4	2987.1
25°	5113.1	4370.0	3685.9	3385.2	3208.2	3072.6	3040.2	2966.4	2954.6	2895.7	2907.5
27.5°	5322.5	4408.4	3638.8	3302.6	3119.8	3016.6	2957.6	2904.5	2883.9	2839.6	2827.8
30°	5602.6	4467.4	3538.5	3199.4	3031.3	2916.3	2880.9	2869.1	2810.2	2763.0	2757.1
32.5°	5921.1	4505.7	3473.6	3093.2	2939.9	2851.4	2869.1	2813.1	2739.4	2698.1	2686.3
35°	6174.7	4520.4	3311.4	2972.3	2878.0	2821.9	2801.3	2789.5	2683.4	2645.0	2615.5
37.5°	6561.0	4488.0	3175.8	2886.8	2810.2	2789.5	2771.8	2692.2	2571.3	2515.3	2474.0
40°	7012.1	4479.1	3001.8	2765.9	2745.3	2768.9	2715.8	2591.9	2423.9	2361.9	2332.5
42.5°	7445.6	4541.1	2892.7	2701.1	2674.5	2683.4	2609.6	2423.9	2341.3	2305.9	2258.7
45°	8171.0	4670.8	2712.8	2600.8	2589.0	2583.1	2494.6	2300.0	2252.8	2208.6	2199.8
47.5°	8825.6	4585.3	2597.8	2497.6	2509.4	2476.9	2288.2	2226.3	2173.2	2129.0	2114.3
50°	8863.9	4381.8	2435.7	2418.0	2420.9	2364.9	2185.0	2143.7	2075.9	2046.4	2025.8
52.5°	8663.4	4048.6	2285.3	2291.2	2300.0	2208.6	2058.2	2028.7	1972.7	1931.4	1919.6
55°	8100.2	3529.6	2137.8	2161.4	2185.0	2011.0	1963.9	1890.1	1845.9	1786.9	1789.9
57.5°	7136.0	2842.6	1931.4	1969.8	2019.9	1828.2	1792.8	1701.4	1636.6	1589.4	1583.5
60°	4782.9	2022.8	1621.8	1636.6	1748.6	1671.9	1669.0	1577.6	1489.1	1447.8	1424.2
62.5°	2821.9	1545.1	1400.7	1385.9	1383.0	1427.2	1500.9	1468.5	1353.5	1273.9	1297.4
65°	1477.3	1335.8	1303.3	1253.2	1223.7	1211.9	1268.0	1282.7	1206.0	1120.5	1114.6
67.5°	1241.4	1241.4	1214.9	1197.2	1155.9	1105.8	1070.4	1023.2	1011.4	987.8	958.3
70°	1129.4	1158.9	1150.0	1108.7	1073.3	1017.3	925.9	849.2	775.5	749.0	766.7
72.5°	984.9	1014.4	1014.4	993.7	946.5	861.0	772.6	684.1	622.2	575.0	569.1
75°	757.8	772.6	808.0	784.4	722.4	669.4	578.0	486.5	427.6	383.3	374.5
77.5°	483.6	507.2	507.2	504.2	460.0	409.9	350.9	286.0	241.8	209.4	200.5
80°	321.4	336.2	348.0	336.2	306.7	268.3	224.1	179.9	147.4	120.9	115.0
82.5°	235.9	253.6	262.4	250.6	221.2	191.7	159.2	126.8	94.4	73.7	67.8
85°	91.4	94.4	106.2	126.8	123.8	120.9	97.3	70.8	53.1	38.3	35.4
87.5°	23.6	20.6	23.6	23.6	20.6	17.7	17.7	17.7	17.7	8.8	11.8
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)