

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: P383057

Luminaire Tested: **GLEON-SA4A-735-U-SL4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383057
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-24)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA4A-735-U-SL4
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16640.2 lumens
Efficiency: N/A
Efficacy: 129.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

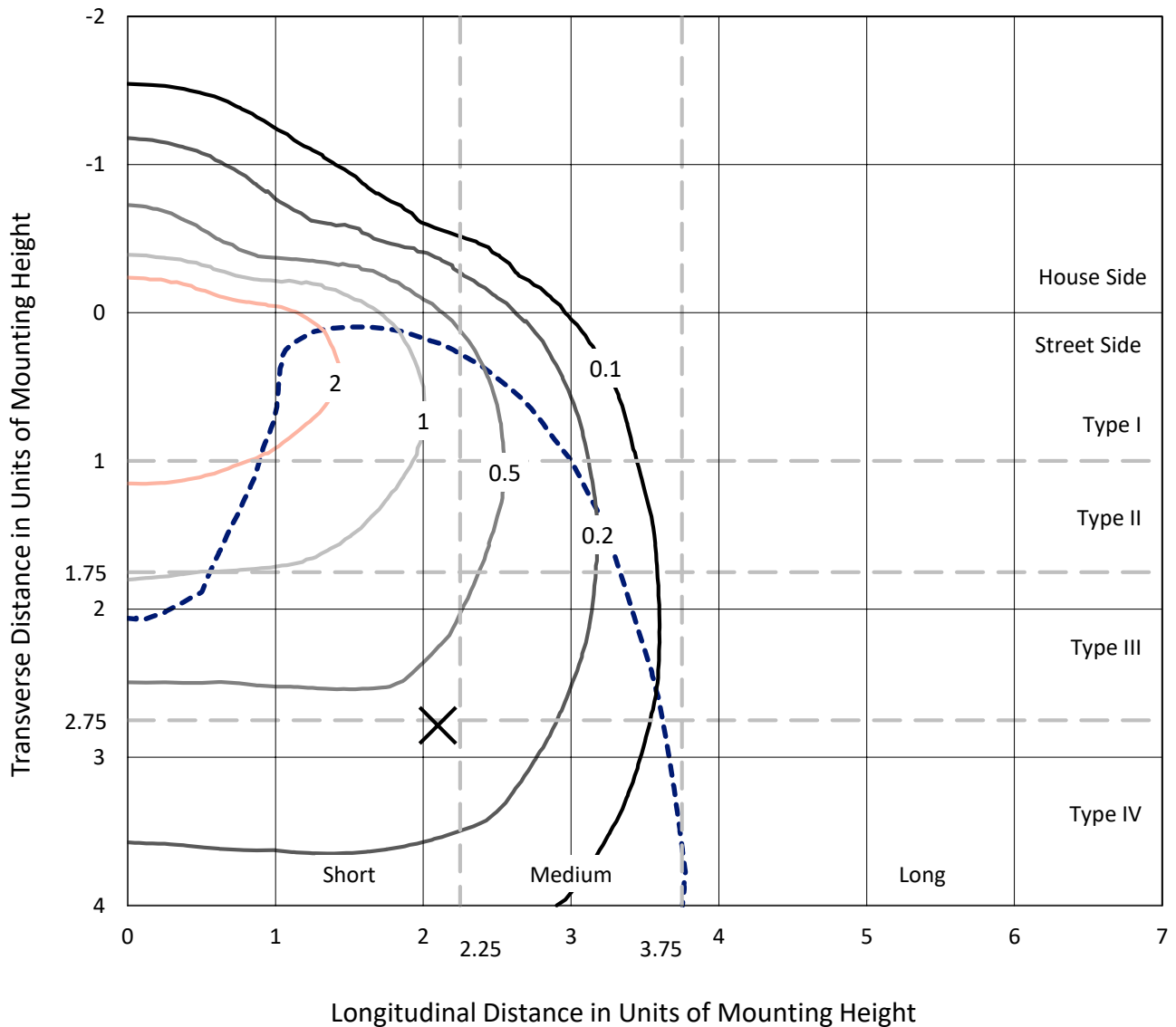
Input Watts (W): 129
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

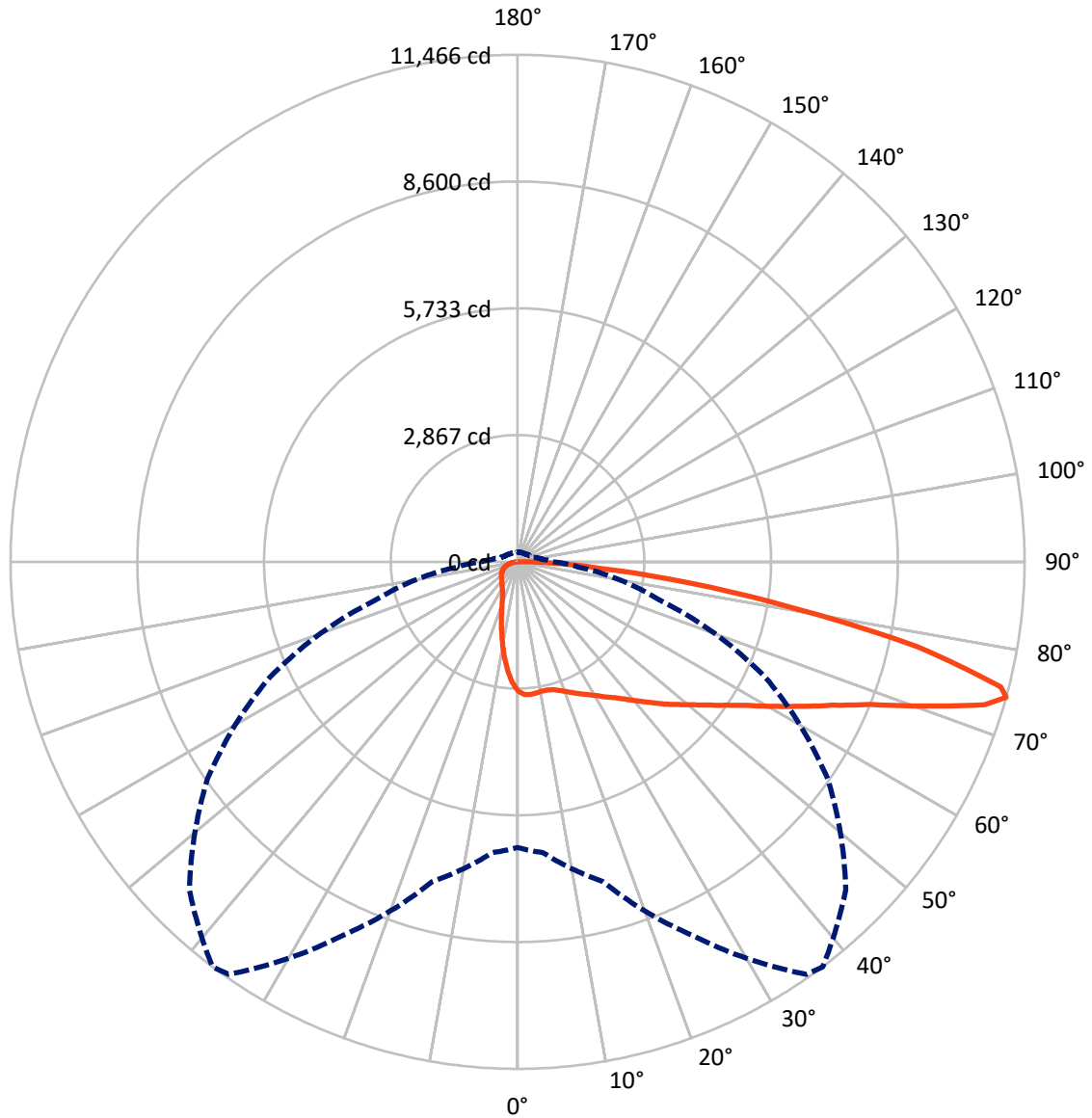
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.8 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 37-Deg Lateral - - - Horizontal Cone Through 74-Deg Vertical

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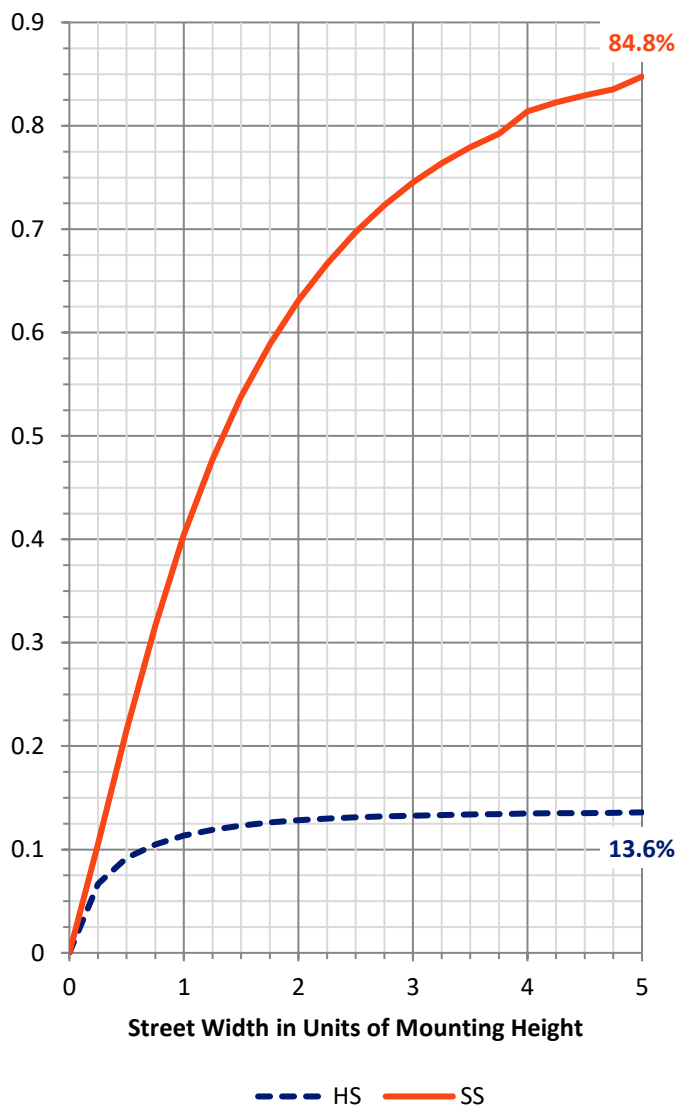
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2289.6	0.0	2289.6
	% Fixture	13.8	0.0	13.8
Street Side	Lumens	14350.6	0.0	14350.6
	% Fixture	86.2	0.0	86.2
Total	Lumens	16640.2	0.0	16640.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	258.2	1.6
10°-20°	661.8	4.0
20°-30°	1019.7	6.1
30°-40°	1482.8	8.9
40°-50°	2182.5	13.1
50°-60°	3064.9	18.4
60°-70°	3879.2	23.3
70°-80°	3415.8	20.5
80°-90°	675.4	4.1
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°	16640.2	100.0
0°-180°	16640.2	100.0

Coefficient of Utilization



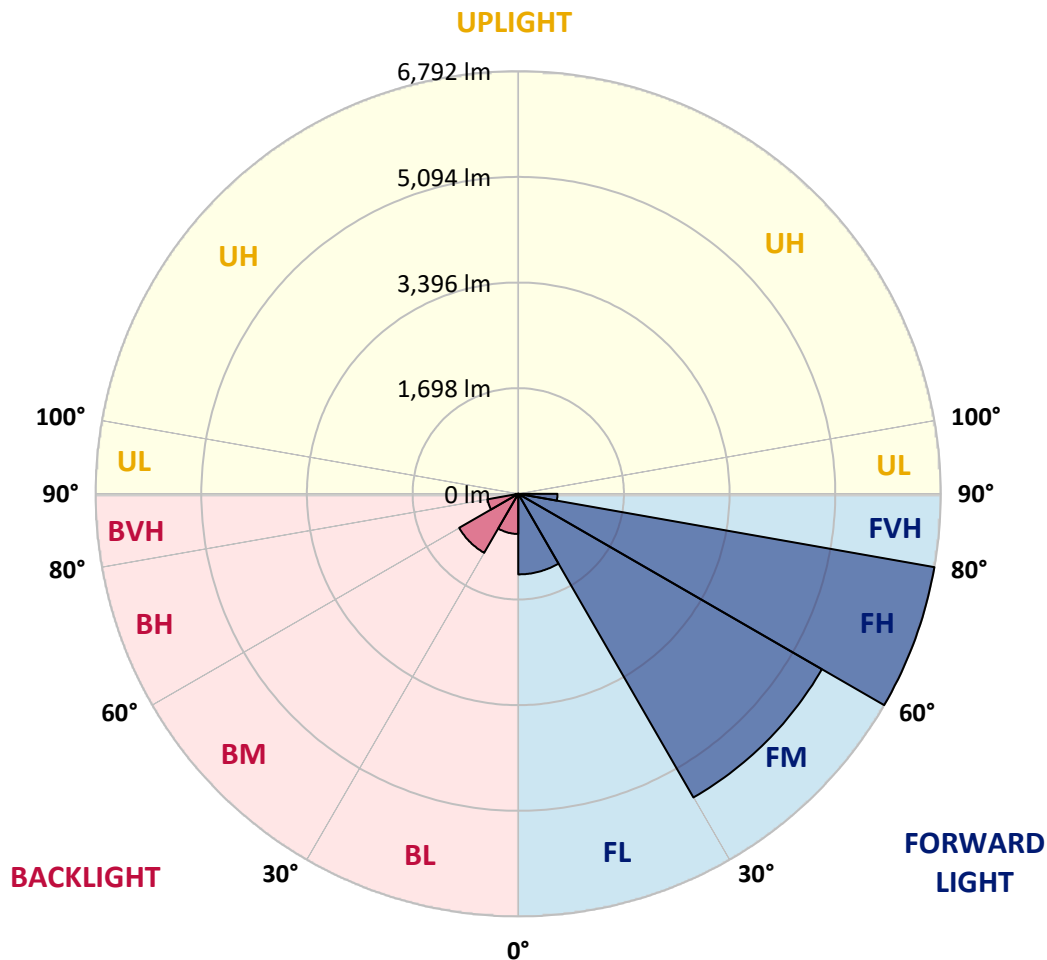
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1294.8	7.8			
FM (30°-60°)	5634.5	33.9			
FH (60°-80°)	6791.7	40.8			G3/7500
FVH (80°-90°)	629.6	3.8			G4/750
BL (0°-30°)	644.9	3.9	B2/1000		
BM (30°-60°)	1095.6	6.6	B2/2500		
BH (60°-80°)	503.3	3.0	B2/1000		G2/1000
BVH (80°-90°)	45.7	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-G4

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	37°	45°	55°	65°	75°	85°
0°	2932.0	2932.0	2932.0	2932.0	2932.0	2932.0	2932.0	2932.0	2932.0	2932.0	2932.0
2.5°	3032.2	3032.7	3032.2	3027.5	3016.4	3006.9	2999.4	2988.2	2963.6	2944.8	2916.7
5°	3060.9	3057.3	3055.0	3046.3	3028.6	3018.1	3003.5	2982.3	2941.9	2904.4	2858.6
7.5°	3047.4	3043.3	3038.1	3027.5	3007.6	2998.7	2978.3	2950.7	2902.1	2852.8	2787.2
10°	3005.8	3004.6	3002.3	3000.0	2982.9	2975.9	2957.1	2927.9	2879.8	2820.0	2743.2
12.5°	2959.5	2962.4	2971.8	2984.1	2976.5	2972.9	2961.3	2941.4	2892.1	2827.6	2735.0
15°	2930.2	2938.4	2963.6	2995.9	3002.3	3001.1	2998.2	2985.3	2933.1	2861.6	2753.7
17.5°	2920.2	2933.7	2981.8	3035.1	3053.9	3058.0	3059.1	3036.8	2978.8	2903.3	2773.1
20°	2938.4	2955.4	3025.8	3099.0	3128.9	3131.2	3126.0	3087.2	3022.2	2938.9	2783.7
22.5°	2993.5	3008.7	3096.7	3179.3	3213.3	3216.8	3201.0	3142.4	3068.0	2981.1	2798.3
25°	3099.6	3118.4	3206.3	3288.9	3306.5	3307.1	3284.3	3211.5	3127.8	3040.4	2829.9
27.5°	3237.9	3256.7	3335.8	3416.7	3407.3	3402.0	3371.0	3298.3	3205.6	3121.9	2886.2
30°	3392.0	3412.6	3487.6	3545.1	3522.8	3512.2	3487.1	3393.3	3314.1	3233.2	2972.4
32.5°	3551.5	3570.2	3635.9	3675.2	3647.0	3642.4	3604.3	3518.6	3455.4	3403.2	3111.9
35°	3715.0	3728.5	3793.0	3815.2	3777.8	3776.6	3766.1	3687.5	3647.7	3672.3	3314.7
37.5°	3882.1	3885.6	3940.7	3941.8	3930.8	3935.4	3946.6	3897.3	3908.5	3985.3	3578.4
40°	4031.0	4040.4	4080.2	4092.6	4111.9	4128.2	4184.0	4151.7	4237.9	4373.9	3906.7
42.5°	4141.2	4159.4	4223.3	4254.9	4317.6	4343.4	4422.0	4451.9	4625.3	4829.3	4297.1
45°	4234.3	4262.5	4365.1	4430.2	4536.3	4581.4	4693.9	4794.1	5063.2	5323.4	4707.9
47.5°	4335.2	4370.9	4499.3	4623.6	4767.8	4818.8	5023.4	5173.4	5530.4	5820.5	5095.5
50°	4483.5	4511.0	4636.5	4831.7	5011.6	5077.3	5360.4	5575.5	6005.1	6294.1	5431.3
52.5°	4690.4	4679.8	4785.9	5059.7	5301.2	5382.1	5720.3	6003.4	6486.4	6722.6	5715.0
55°	4898.4	4880.9	4955.4	5298.3	5638.8	5723.8	6116.5	6433.1	6944.1	7108.3	5932.5
57.5°	5130.0	5096.6	5159.4	5567.3	6023.3	6124.7	6560.2	6889.6	7394.3	7420.1	6070.8
60°	5368.6	5323.4	5393.8	5900.8	6511.6	6631.1	7079.6	7335.1	7818.8	7669.8	6115.3
62.5°	5577.3	5545.6	5654.0	6273.0	7062.0	7193.3	7589.5	7808.8	8237.2	7773.6	5954.7
65°	5759.6	5764.8	5952.4	6691.6	7675.7	7815.8	8174.5	8392.6	8566.6	7712.0	5579.0
67.5°	5977.0	6006.9	6327.0	7242.5	8448.2	8601.8	9025.6	9029.1	8750.7	7350.9	4839.3
70°	6294.1	6355.7	6842.2	8006.8	9546.7	9757.7	10084.7	9403.1	8492.2	6372.1	3807.7
72.5°	6575.5	6690.4	7390.2	8881.4	10885.5	11045.5	10704.3	9187.4	7412.0	4775.4	2372.2
74°	6461.2	6603.6	7489.9	9312.2	11389.6	11466.3	10495.1	8557.8	6179.8	3307.1	1378.6
75°	6215.0	6369.7	7344.5	9308.1	11325.7	11282.9	9989.8	7838.6	5089.6	2255.6	917.3
77.5°	5015.7	5179.2	6188.6	7977.6	9286.4	9246.0	7673.9	5258.4	2229.1	739.7	466.0
80°	2916.1	3040.9	3841.7	5066.1	6261.9	6335.2	5046.8	2601.9	876.9	415.6	316.0
82.5°	1295.4	1381.6	1855.7	2586.1	3778.9	3873.3	2643.0	1363.4	541.6	252.6	189.9
85°	849.9	913.8	1126.6	1231.5	1799.5	1863.9	1293.6	1061.5	357.5	138.9	139.5
87.5°	611.4	672.9	837.0	730.9	825.9	781.9	704.0	982.4	143.6	79.1	46.9
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°	2932.0	2932.0	2932.0	2932.0	2932.0	2932.0	2932.0	2932.0	2932.0	2932.0	2932.0
2.5°	2904.4	2895.1	2873.9	2834.0	2811.8	2793.1	2761.9	2743.8	2735.6	2735.0	2738.5
5°	2832.3	2810.6	2756.1	2689.3	2635.9	2587.3	2526.9	2490.6	2464.8	2449.5	2453.6
7.5°	2748.4	2714.4	2628.9	2522.3	2436.6	2342.3	2249.0	2193.4	2150.0	2117.8	2123.6
10°	2691.1	2644.1	2519.3	2365.8	2223.3	2086.1	1957.7	1881.0	1820.0	1773.1	1776.6
12.5°	2671.7	2608.4	2435.4	2230.3	2030.4	1842.9	1675.2	1557.5	1494.7	1441.4	1445.5
15°	2674.7	2589.6	2365.1	2108.4	1856.9	1620.7	1417.3	1279.6	1194.6	1157.6	1158.3
17.5°	2677.0	2567.9	2291.2	1977.7	1685.2	1413.3	1192.2	1052.7	972.4	938.4	939.0
20°	2669.3	2532.8	2199.8	1827.6	1505.8	1222.7	1008.8	890.4	829.4	803.0	803.0
22.5°	2659.4	2491.1	2096.6	1677.0	1328.9	1057.4	877.5	787.3	752.0	734.4	733.9
25°	2664.0	2460.1	1991.2	1522.2	1165.8	925.5	790.1	730.3	706.9	695.8	695.2
27.5°	2689.3	2445.4	1893.8	1368.1	1023.4	826.5	731.5	689.3	674.1	667.1	667.1
30°	2735.0	2445.4	1792.5	1236.8	905.0	753.2	686.4	657.7	647.1	642.4	642.4
32.5°	2814.7	2458.9	1694.6	1106.7	810.6	695.8	648.9	629.5	621.3	619.0	619.0
35°	2951.9	2504.7	1599.0	983.5	734.4	648.9	613.1	602.0	596.1	595.5	597.3
37.5°	3144.7	2597.8	1509.4	892.7	680.5	610.8	583.2	574.4	570.9	573.8	576.2
40°	3387.4	2724.4	1427.9	810.6	639.5	580.3	555.7	549.8	548.0	552.1	555.7
42.5°	3680.5	2895.6	1361.1	751.5	607.8	554.5	532.2	525.2	523.4	528.1	532.8
45°	3997.6	3079.7	1314.1	707.5	583.2	535.2	511.7	504.1	500.6	502.9	508.2
47.5°	4286.0	3253.7	1295.4	676.4	559.8	518.8	493.5	484.1	478.3	477.1	481.2
50°	4529.2	3383.3	1304.2	657.7	541.0	500.6	475.9	465.4	456.6	451.3	454.3
52.5°	4706.3	3464.8	1312.4	649.5	526.3	480.7	456.6	446.7	434.9	426.1	426.1
55°	4834.6	3483.5	1294.2	643.0	515.2	459.0	434.9	425.5	413.8	403.8	402.7
57.5°	4885.0	3430.8	1226.8	633.6	507.6	438.5	412.0	405.0	395.1	383.3	382.8
60°	4817.0	3267.8	1096.7	613.7	497.6	421.4	389.2	384.5	379.8	368.7	368.1
62.5°	4543.9	2910.2	928.5	573.3	477.7	403.3	368.1	370.5	371.0	363.4	362.3
65°	4048.6	2419.0	764.3	520.5	447.8	381.6	346.4	357.5	364.0	362.8	361.1
67.5°	3328.8	1882.8	647.7	464.8	408.6	351.7	323.0	335.8	341.1	345.2	344.1
70°	2470.7	1327.6	535.7	406.2	361.1	316.5	292.5	298.9	295.4	300.1	301.9
72.5°	1377.5	796.6	436.7	347.6	311.8	275.5	258.5	257.3	249.7	249.7	249.7
74°	826.5	584.4	383.9	311.2	282.0	248.5	233.9	228.6	221.5	222.2	221.5
75°	664.7	502.3	352.3	287.2	260.8	232.7	218.1	211.0	205.8	205.8	205.1
77.5°	419.7	381.6	283.7	228.6	208.7	191.7	181.7	172.3	172.3	171.8	171.1
80°	317.1	303.6	221.0	172.9	160.0	147.1	140.7	136.6	136.6	138.3	137.8
82.5°	217.4	228.6	155.3	120.7	114.3	104.9	103.8	104.3	102.6	100.2	99.7
85°	158.8	171.8	104.9	76.2	69.8	63.9	68.6	70.9	68.0	62.7	60.4
87.5°	60.9	112.5	56.3	31.7	29.3	25.2	29.3	30.5	32.8	25.8	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

(END OF REPORT)