

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: P318537

Luminaire Tested: **GLEON-SA3D-827-U-T3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P318537
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-14)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA3D-827-U-T3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17416.9 lumens
Efficiency: N/A
Efficacy: 91.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G3

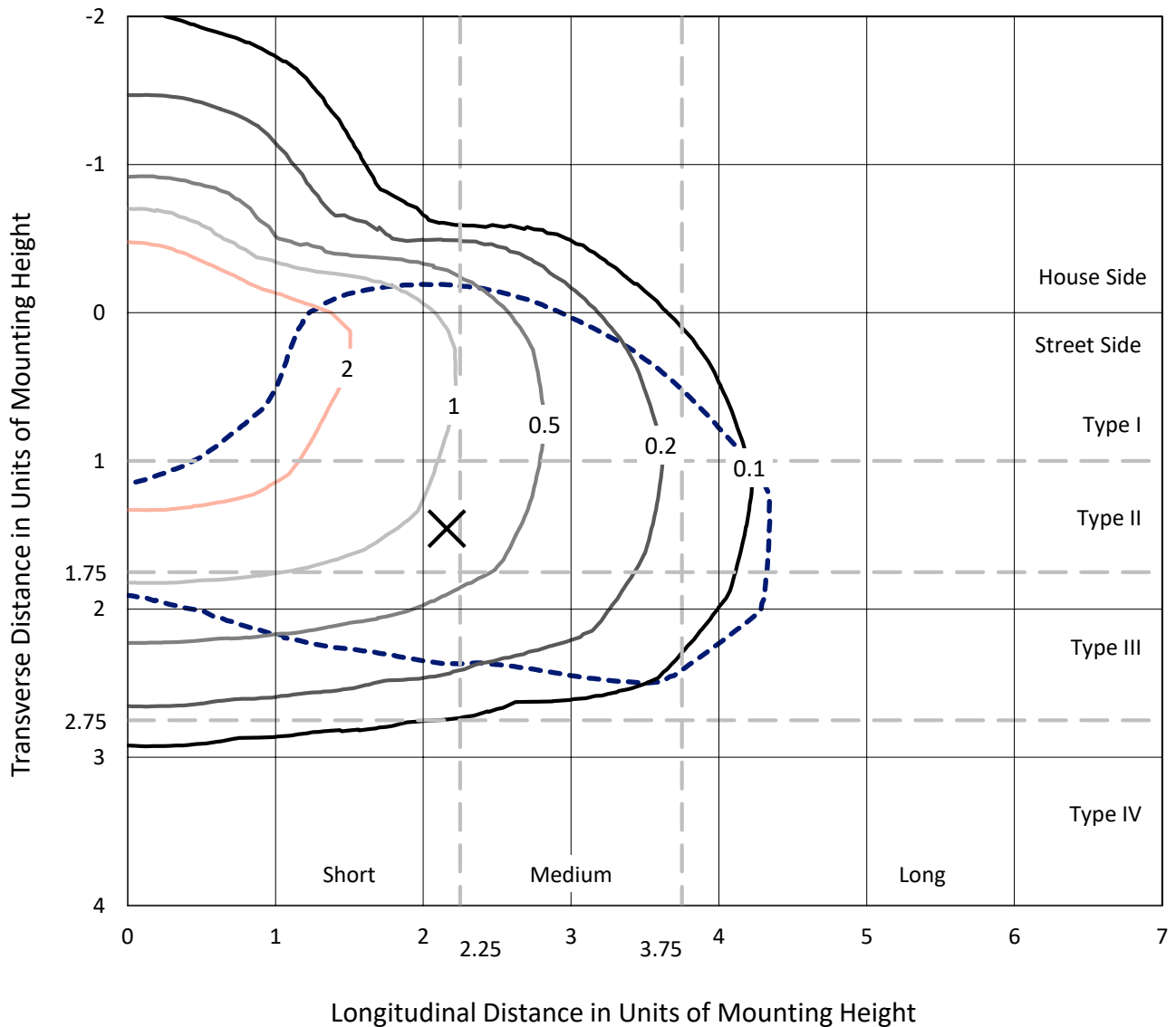
Input Watts (W): 191
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

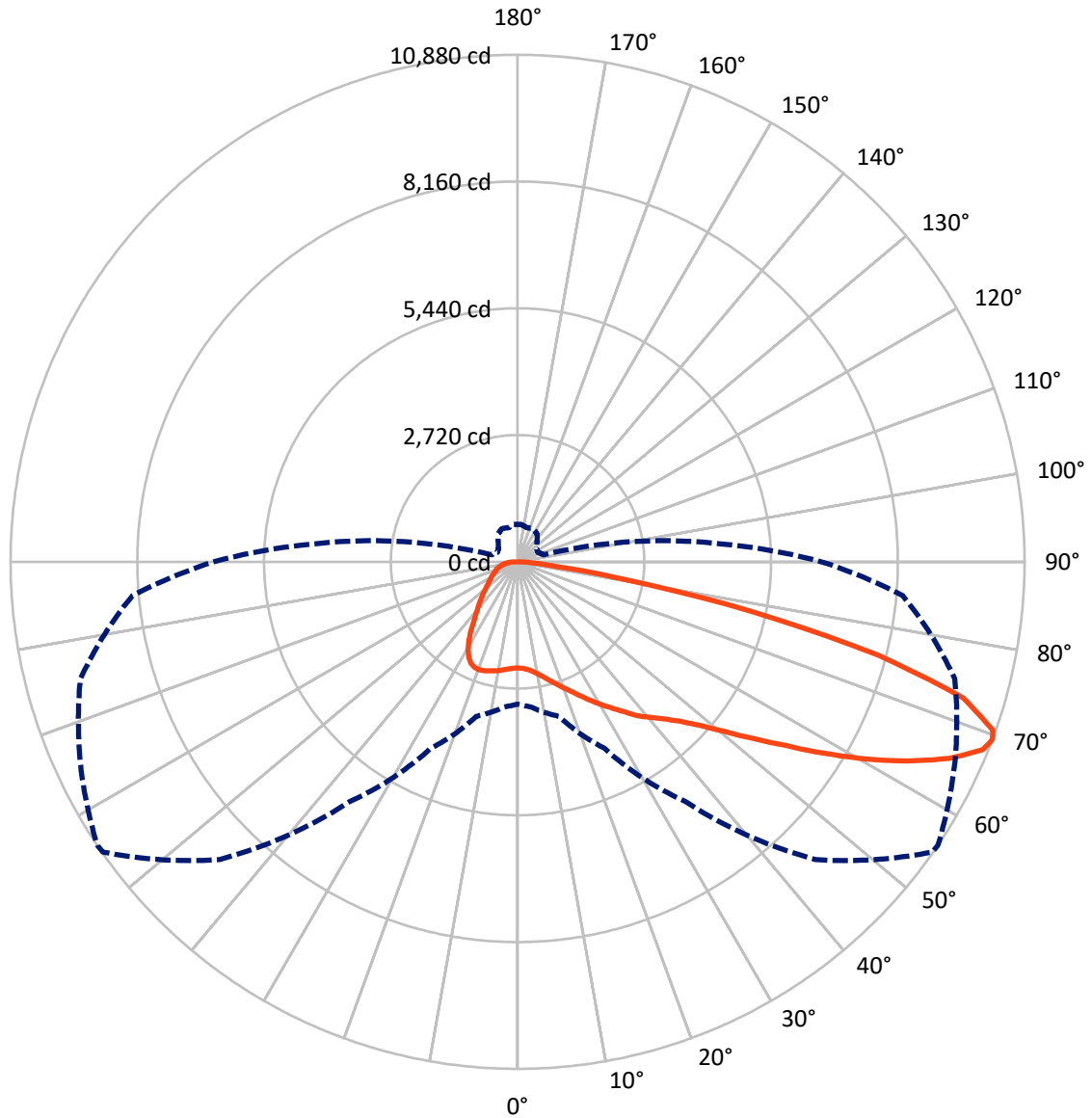
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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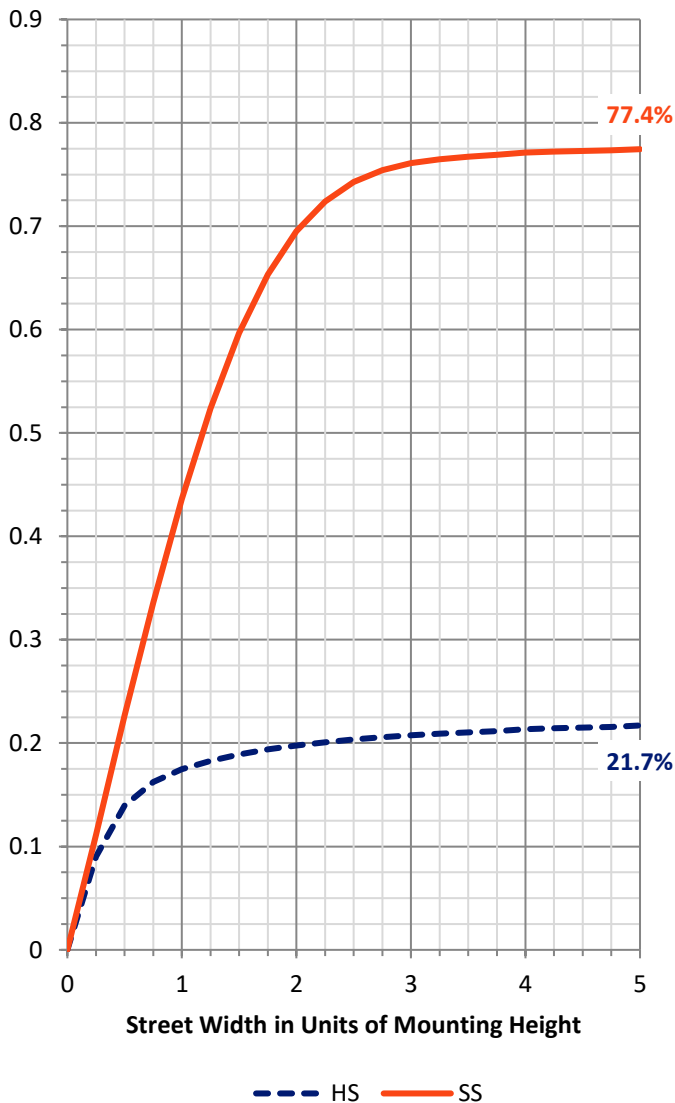
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3878.7	0.0	3878.7
	% Fixture	22.3	0.0	22.3
Street Side	Lumens	13538.2	0.0	13538.2
	% Fixture	77.7	0.0	77.7
Total	Lumens	17416.9	0.0	17416.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	223.6	1.3
10°-20°	719.1	4.1
20°-30°	1255.3	7.2
30°-40°	1803.2	10.4
40°-50°	2495.6	14.3
50°-60°	3656.4	21.0
60°-70°	4457.8	25.6
70°-80°	2464.6	14.2
80°-90°	341.3	2.0
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°	17416.9	100.0
0°-180°	17416.9	100.0



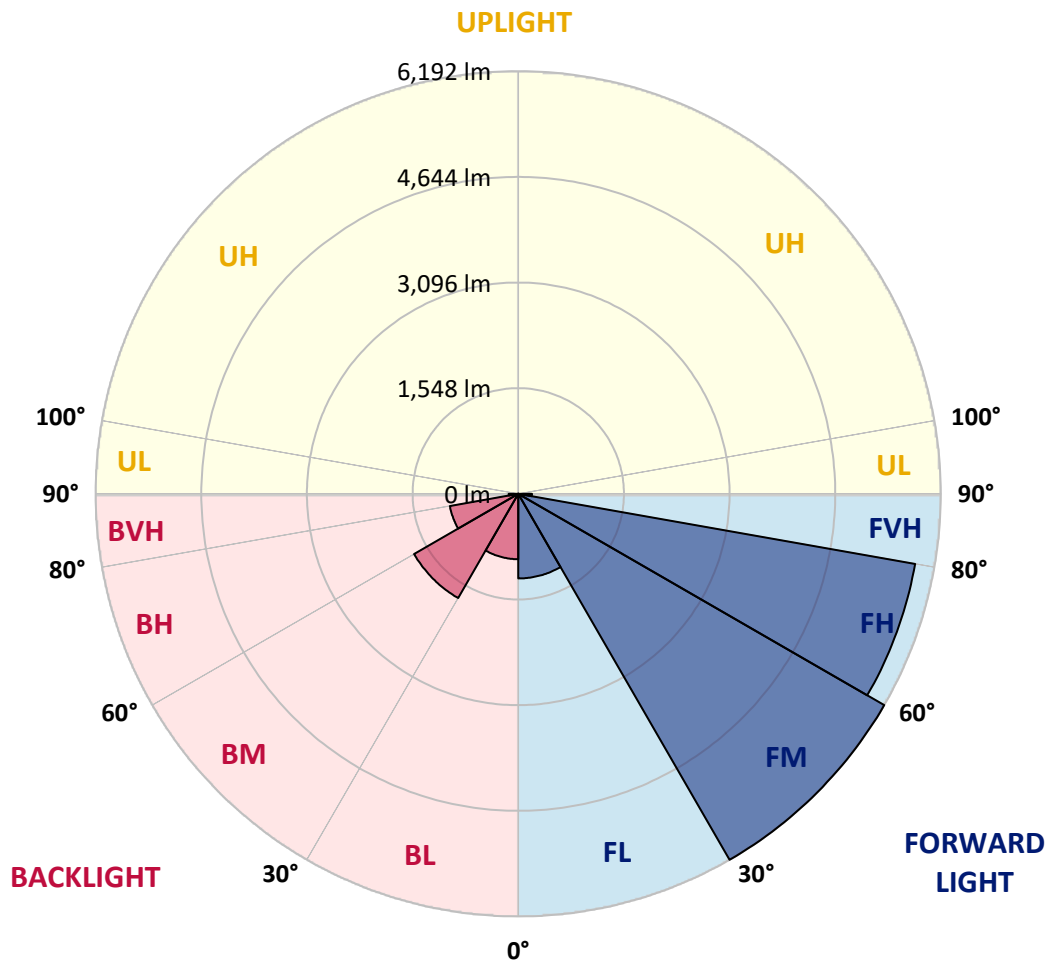
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1239.6	7.1			
FM (30°-60°)	6192.4	35.6			
FH (60°-80°)	5905.2	33.9			G3/7500
FVH (80°-90°)	201.1	1.2			G2/225
BL (0°-30°)	958.5	5.5	B2/1000		
BM (30°-60°)	1762.8	10.1	B2/2500		
BH (60°-80°)	1017.1	5.8	B3/2500		G3/2500
BVH (80°-90°)	140.3	0.8			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	2277.0	2277.0	2277.0	2277.0	2277.0	2277.0	2277.0	2277.0	2277.0	2277.0	2277.0
2.5°	2291.4	2293.8	2292.0	2296.8	2291.4	2295.0	2292.0	2292.0	2290.2	2284.8	2278.8
5°	2327.4	2332.2	2329.2	2334.0	2327.4	2328.6	2323.2	2323.2	2317.8	2306.4	2294.4
7.5°	2383.8	2389.2	2386.8	2391.6	2382.6	2382.6	2375.4	2374.8	2364.0	2345.4	2331.6
10°	2451.0	2458.2	2455.8	2463.0	2455.8	2458.2	2451.0	2451.0	2436.6	2410.2	2392.8
12.5°	2548.8	2557.8	2551.2	2550.6	2547.6	2552.4	2546.4	2545.2	2532.0	2496.0	2472.0
15°	2679.6	2689.2	2675.4	2674.2	2657.4	2655.6	2655.6	2653.8	2645.4	2602.2	2562.6
17.5°	2830.2	2833.2	2821.2	2802.0	2780.4	2766.6	2764.8	2769.6	2769.6	2719.2	2656.2
20°	2977.8	2983.2	2973.6	2952.0	2924.4	2904.0	2889.6	2899.2	2898.6	2838.6	2749.2
22.5°	3138.6	3151.2	3136.8	3109.2	3076.8	3054.0	3028.8	3037.2	3037.8	2964.0	2840.4
25°	3346.8	3335.4	3326.4	3287.4	3241.2	3217.8	3194.4	3202.8	3200.4	3099.0	2934.6
27.5°	3531.0	3533.4	3521.4	3480.0	3426.6	3375.0	3373.8	3379.2	3370.2	3239.4	3023.4
30°	3745.2	3746.4	3729.6	3692.4	3634.2	3567.6	3552.0	3561.0	3541.8	3372.6	3117.0
32.5°	3958.2	3964.2	3945.6	3900.6	3853.8	3772.8	3741.6	3747.6	3699.6	3508.8	3213.6
35°	4144.8	4153.2	4147.2	4117.2	4066.2	3996.6	3959.4	3955.8	3896.4	3675.6	3341.4
37.5°	4335.0	4342.8	4336.2	4311.0	4290.6	4216.8	4197.0	4197.0	4093.8	3846.0	3504.0
40°	4530.6	4542.6	4534.8	4500.0	4482.6	4449.0	4401.6	4390.2	4278.6	4050.6	3769.2
42.5°	4712.4	4728.0	4759.2	4738.8	4703.4	4708.2	4612.8	4606.8	4525.2	4353.0	4102.2
45°	4970.4	4993.2	5046.0	5030.4	5023.2	4996.8	4883.4	4878.0	4846.8	4759.8	4515.6
47.5°	5251.8	5283.0	5378.4	5381.4	5458.8	5409.0	5254.8	5236.2	5243.4	5247.0	5020.2
50°	5511.0	5545.2	5701.8	5775.6	5958.0	5968.8	5722.2	5705.4	5733.6	5816.4	5608.2
52.5°	5718.0	5761.2	5956.8	6184.8	6497.4	6586.2	6297.6	6285.0	6306.0	6448.8	6273.0
55°	5869.8	5916.6	6129.6	6544.8	7044.0	7200.6	6960.0	6948.0	6961.2	7143.0	6996.0
57.5°	5905.2	5916.6	6225.6	6787.2	7505.4	7881.6	7770.6	7746.6	7681.8	7840.2	7794.0
60°	5739.0	5784.6	6146.4	6872.4	7862.4	8553.0	8617.8	8587.8	8406.0	8535.6	8498.4
62.5°	5401.8	5483.4	5850.6	6742.8	8002.2	9101.4	9448.8	9412.8	9099.6	9183.6	9004.8
65°	4851.0	4885.8	5271.6	6295.8	7824.6	9452.4	10189.8	10171.8	9777.6	9646.2	9098.4
67.5°	3865.8	3931.2	4258.8	5361.6	7098.0	9411.0	10762.8	10761.0	10220.4	9817.8	8766.6
69°	3054.0	3121.8	3433.8	4416.6	6280.8	9032.4	10858.9	10879.9	10345.2	9713.4	8292.6
70°	2434.8	2513.4	2727.6	3720.0	5555.4	8533.2	10779.1	10816.9	10321.2	9541.2	7855.2
72.5°	1036.2	1099.8	1252.2	1917.6	3385.8	6372.0	9855.6	9998.4	9765.0	8732.4	6492.0
75°	452.4	472.2	541.2	781.8	1503.0	3468.0	7720.8	7984.8	8349.6	7381.2	4836.0
77.5°	331.2	339.6	377.4	459.0	674.4	1309.8	4965.0	5118.6	6021.6	5371.2	2966.4
80°	256.2	262.2	291.6	337.2	440.4	529.8	2264.4	2396.4	3385.8	2758.8	1235.4
82.5°	204.0	208.2	228.6	248.4	304.2	321.0	751.8	834.0	1249.8	762.0	327.0
85°	189.6	194.4	201.6	181.2	195.0	188.4	325.2	340.2	377.4	299.4	136.8
87.5°	85.8	101.4	199.8	141.0	103.8	82.8	133.2	139.2	156.6	157.2	60.6
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°	2277.0	2277.0	2277.0	2277.0	2277.0	2277.0	2277.0	2277.0	2277.0	2277.0	2277.0
2.5°	2282.4	2280.6	2283.6	2276.4	2285.4	2284.8	2281.8	2283.0	2289.0	2288.4	2289.0
5°	2296.2	2295.0	2298.6	2293.2	2304.0	2307.6	2308.2	2313.6	2320.2	2322.0	2322.0
7.5°	2331.0	2331.0	2332.8	2325.6	2332.8	2332.2	2329.2	2334.6	2341.2	2341.8	2341.2
10°	2391.0	2391.6	2388.6	2370.0	2364.0	2347.8	2332.8	2333.4	2341.8	2348.4	2350.2
12.5°	2466.6	2464.2	2451.0	2416.8	2391.6	2358.6	2343.0	2342.4	2350.8	2356.2	2358.0
15°	2553.0	2546.4	2512.2	2456.4	2412.0	2379.6	2354.4	2348.4	2343.6	2337.6	2338.2
17.5°	2634.6	2619.6	2562.6	2485.2	2438.4	2395.2	2346.6	2307.6	2280.6	2265.0	2260.2
20°	2717.4	2688.0	2605.8	2512.2	2452.8	2374.2	2280.6	2201.4	2152.2	2129.4	2125.2
22.5°	2793.0	2745.6	2646.0	2540.4	2441.4	2303.4	2156.4	2041.2	1972.8	1942.2	1944.6
25°	2866.8	2800.8	2688.0	2560.2	2383.8	2178.6	1983.6	1842.0	1762.8	1728.6	1727.4
27.5°	2931.6	2856.6	2733.6	2544.0	2276.4	2001.0	1779.0	1641.0	1575.0	1545.6	1540.8
30°	3006.0	2926.8	2794.2	2482.2	2119.2	1795.8	1579.2	1482.0	1435.2	1405.8	1400.4
32.5°	3096.6	3022.2	2844.0	2370.0	1918.2	1581.6	1423.2	1355.4	1312.8	1279.8	1273.8
35°	3228.6	3148.2	2856.6	2209.2	1697.4	1412.4	1308.6	1239.0	1181.4	1138.8	1134.6
37.5°	3394.2	3306.0	2827.8	2001.0	1483.2	1302.6	1213.2	1127.4	1052.4	992.4	982.8
40°	3633.0	3499.8	2748.0	1761.0	1325.4	1218.0	1120.2	1022.4	929.4	859.2	845.4
42.5°	3919.8	3727.2	2625.6	1522.2	1209.6	1132.2	1027.8	906.6	817.8	768.0	760.8
45°	4284.6	3963.6	2455.8	1313.4	1095.6	1046.4	928.2	816.6	761.4	724.8	718.8
47.5°	4701.0	4228.8	2277.6	1143.6	999.0	966.0	848.4	776.4	732.6	703.8	698.4
50°	5212.8	4528.2	2088.6	1004.4	901.8	869.4	810.6	754.2	719.4	697.2	691.8
52.5°	5790.0	4866.0	1952.4	894.6	821.4	798.0	790.8	742.2	714.0	697.2	691.8
55°	6411.6	5209.8	1805.4	802.2	751.8	758.4	777.6	743.4	724.2	703.8	696.0
57.5°	7033.8	5565.0	1641.6	724.2	696.6	729.0	768.6	745.8	729.6	709.8	702.6
60°	7525.8	5790.0	1387.8	658.8	652.8	696.6	747.0	727.8	706.8	707.4	706.2
62.5°	7755.6	5778.0	1107.6	600.6	609.0	652.8	712.2	699.6	682.2	705.6	707.4
65°	7626.6	5490.0	862.2	547.8	562.2	607.2	676.2	685.8	691.8	736.8	742.8
67.5°	7085.4	4929.6	667.8	501.6	519.6	576.0	679.8	747.0	754.8	802.2	801.6
69°	6525.6	4404.0	580.2	477.6	498.6	583.8	726.6	786.0	756.6	807.0	799.8
70°	6056.4	3988.2	533.4	461.4	489.0	597.6	757.8	785.4	747.6	790.8	778.8
72.5°	4664.4	2869.2	452.4	431.4	456.6	571.8	766.8	768.0	726.6	735.0	714.6
75°	3199.2	1813.2	394.8	390.6	407.4	515.4	738.0	733.8	672.0	660.0	643.2
77.5°	1764.0	921.0	335.4	351.6	363.0	456.6	670.8	664.8	613.8	588.6	582.6
80°	680.4	403.2	283.2	312.6	319.8	395.4	588.0	582.6	540.0	507.6	498.6
82.5°	256.8	211.2	234.0	270.6	268.2	326.4	498.0	495.0	453.6	406.2	391.8
85°	118.8	126.6	185.4	223.2	205.8	241.8	398.4	403.8	353.4	297.0	297.0
87.5°	50.4	70.8	131.4	168.6	138.6	163.2	292.2	279.0	256.2	177.6	166.8
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)