

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: P527984

Luminaire Tested: **GALN-SA3A-735-U-T3-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P527984
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-16)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA3A-735-U-T3-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10842 lumens
Efficiency: N/A
Efficacy: 116.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

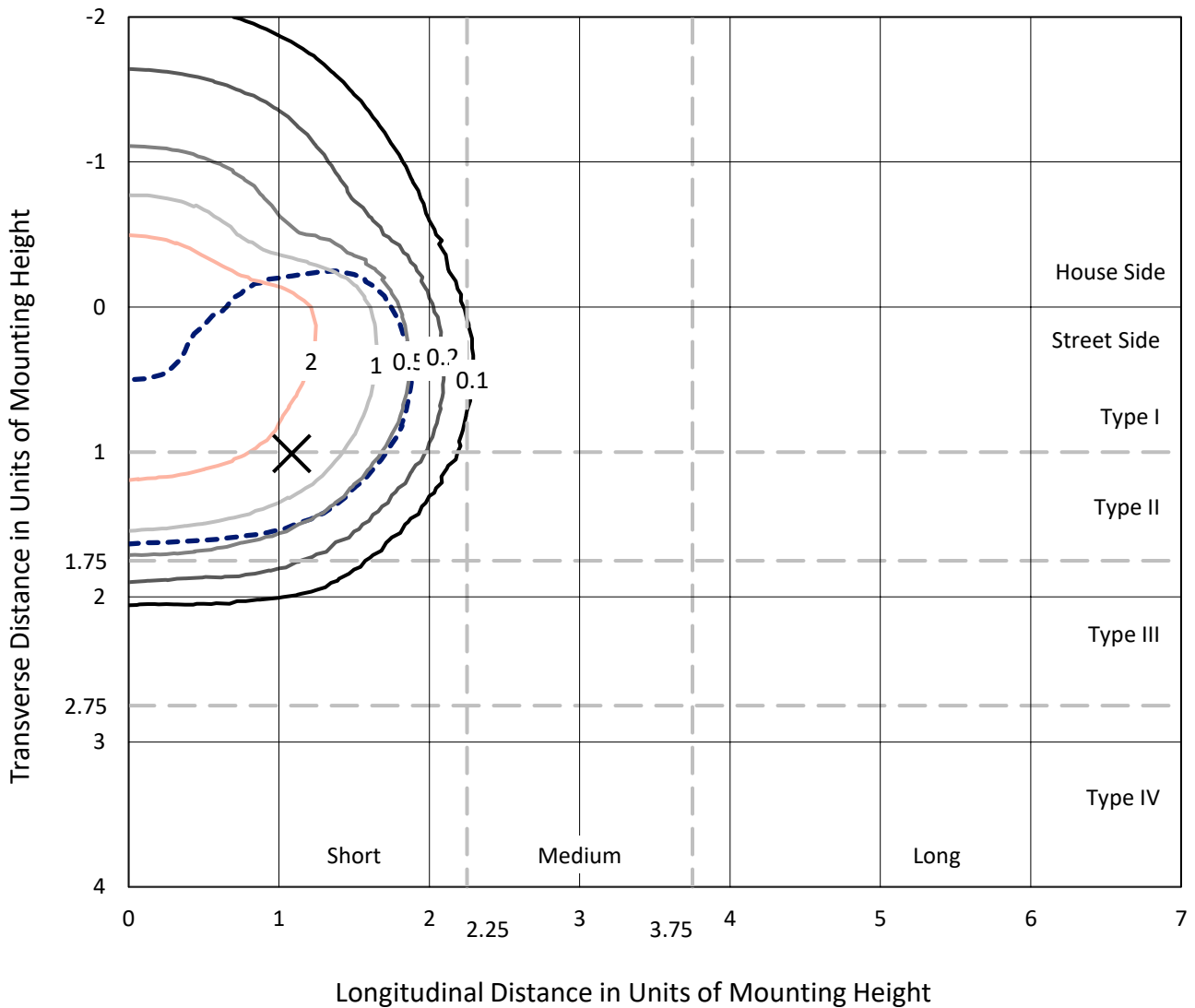
Input Watts (W): 93
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

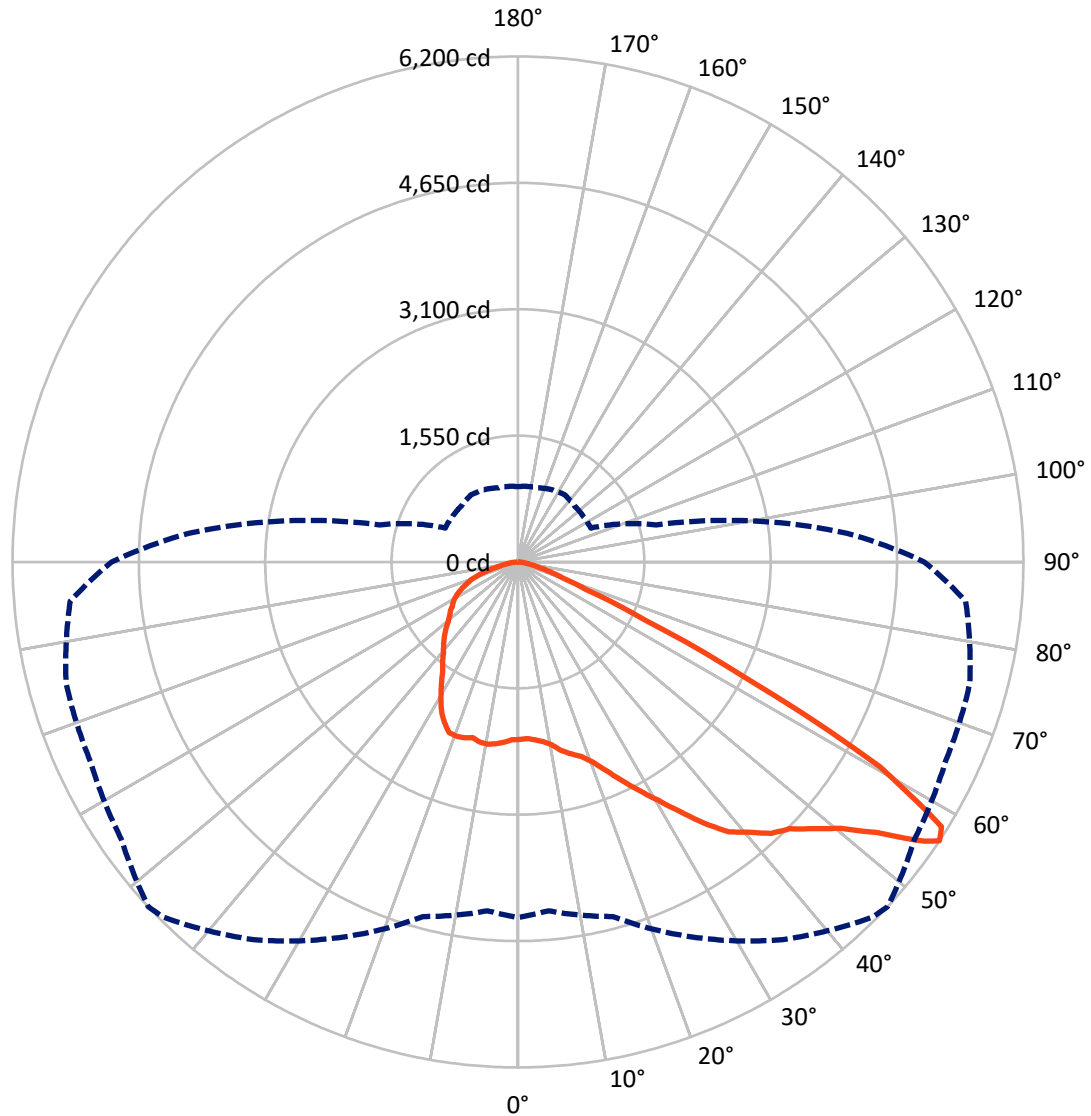
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.6 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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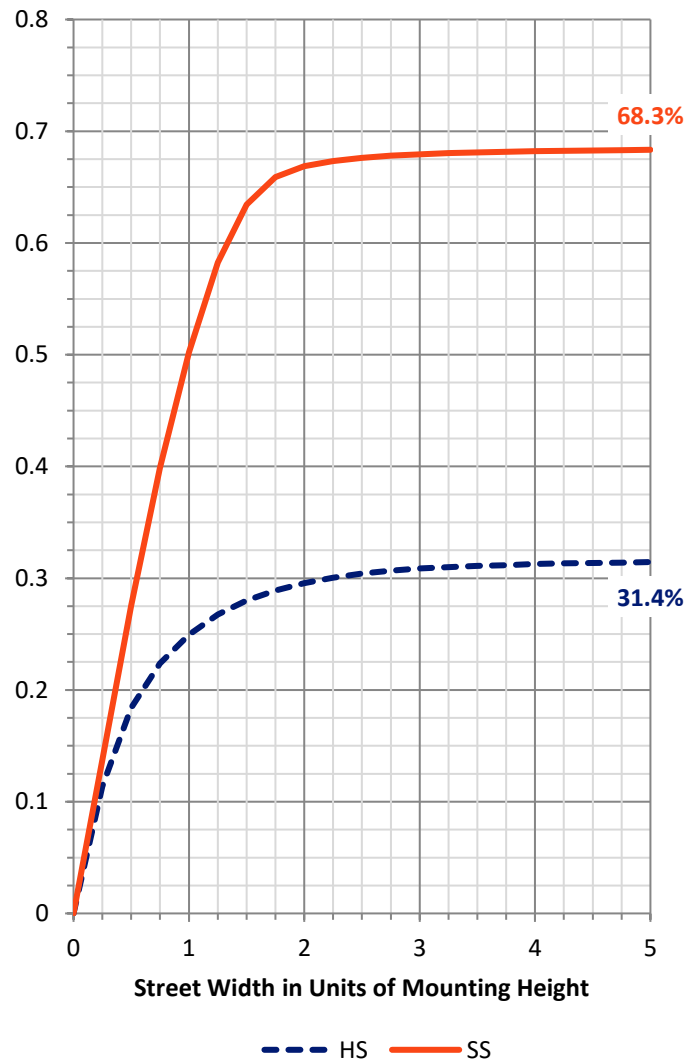
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3435.7	0.0	3435.7
	% Fixture	31.7	0.0	31.7
Street Side	Lumens	7406.3	0.0	7406.3
	% Fixture	68.3	0.0	68.3
Total	Lumens	10842.0	0.0	10842.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	212.2	2.0
10°-20°	669.4	6.2
20°-30°	1183.3	10.9
30°-40°	1777.3	16.4
40°-50°	2439.2	22.5
50°-60°	2905.9	26.8
60°-70°	1243.6	11.5
70°-80°	351.9	3.2
80°-90°	59.2	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°	10842.0	100.0
0°-180°	10842.0	100.0



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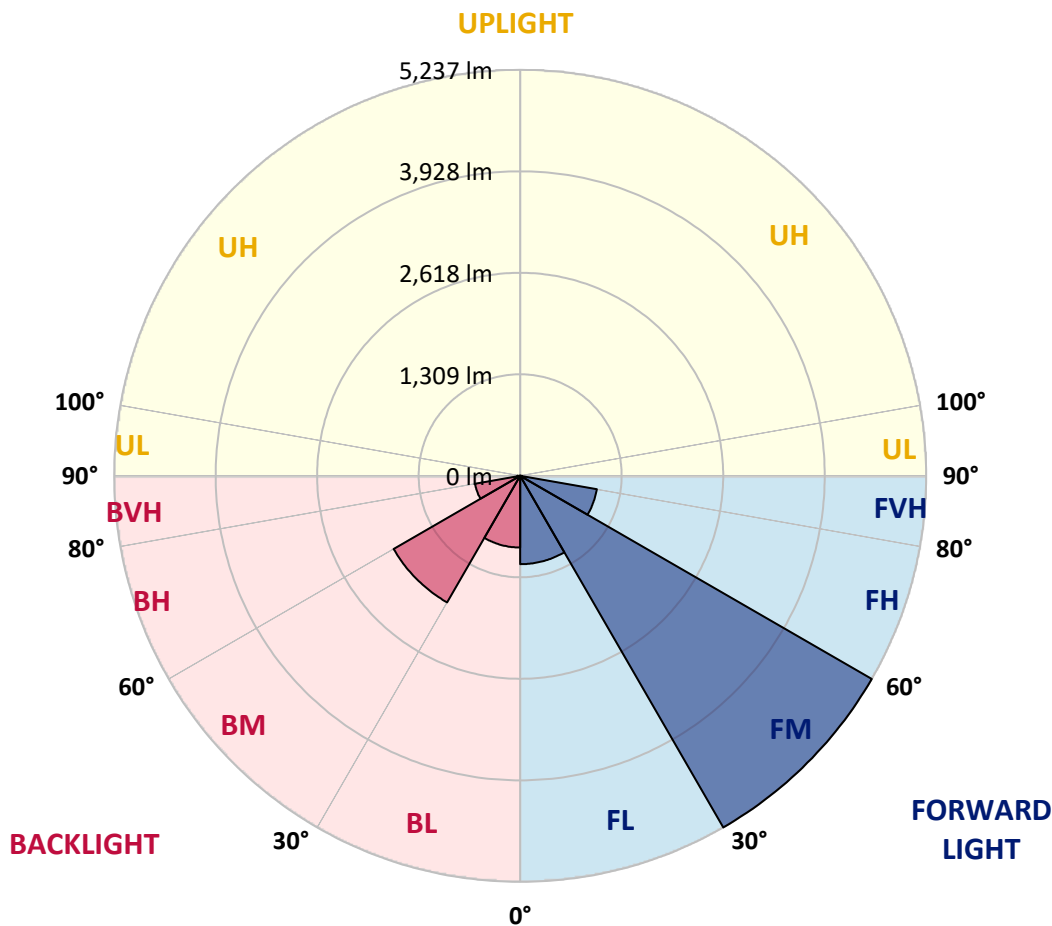
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1139.9	10.5			
FM (30°-60°)	5236.9	48.3			
FH (60°-80°)	1004.4	9.3			G1/1800
FVH (80°-90°)	25.1	0.2			G1/100
BL (0°-30°)	925.0	8.5	B2/1000		
BM (30°-60°)	1885.5	17.4	B2/2500		
BH (60°-80°)	591.1	5.5	B2/1000		G2/1000
BVH (80°-90°)	34.1	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	2177.8	2177.8	2177.8	2177.8	2177.8	2177.8	2177.8	2177.8	2177.8	2177.8	2177.8
2.5°	2169.5	2165.4	2162.6	2184.7	2176.4	2177.8	2169.5	2177.8	2183.4	2170.9	2188.9
5°	2165.4	2177.8	2166.8	2173.7	2191.7	2186.1	2191.7	2208.2	2204.1	2200.0	2194.4
7.5°	2204.1	2205.5	2213.8	2216.5	2222.1	2216.5	2224.8	2240.1	2235.9	2212.4	2215.2
10°	2259.4	2262.2	2263.6	2278.8	2288.4	2289.8	2280.2	2266.3	2264.9	2296.7	2274.6
12.5°	2323.0	2316.1	2332.7	2338.2	2349.3	2361.7	2374.2	2345.1	2363.1	2364.5	2338.2
15°	2415.7	2422.6	2403.2	2403.2	2407.4	2408.7	2443.3	2429.5	2426.7	2411.5	2422.6
17.5°	2553.9	2506.9	2505.5	2486.2	2483.4	2494.5	2506.9	2518.0	2555.3	2524.9	2465.4
20°	2654.9	2665.9	2625.8	2602.3	2606.5	2631.4	2618.9	2668.7	2695.0	2645.2	2587.1
22.5°	2833.3	2795.9	2805.6	2753.1	2757.2	2783.5	2782.1	2833.3	2848.5	2769.6	2685.3
25°	2953.6	2943.9	2952.2	2910.7	2916.2	2937.0	2970.1	3054.5	3029.6	2942.5	2747.5
27.5°	3129.2	3109.8	3102.9	3087.7	3082.1	3137.5	3176.2	3266.1	3248.1	3120.9	2858.1
30°	3308.9	3296.5	3303.4	3241.2	3263.3	3380.8	3391.9	3514.9	3506.6	3282.6	2981.2
32.5°	3433.4	3440.3	3452.7	3418.2	3516.3	3610.4	3647.7	3787.3	3794.3	3560.6	3219.0
35°	3633.9	3610.4	3617.3	3657.4	3703.0	3874.5	3935.3	4027.9	4086.0	3852.3	3447.2
37.5°	3759.7	3784.6	3755.5	3819.2	3938.1	4144.1	4199.4	4294.8	4355.7	4139.9	3758.3
40°	3956.0	3915.9	3936.7	3982.3	4104.0	4372.2	4357.0	4455.2	4474.6	4384.7	4048.7
42.5°	4167.6	4148.2	4119.2	4222.9	4325.2	4520.2	4550.6	4505.0	4603.2	4623.9	4463.5
45°	4420.6	4444.2	4448.3	4451.1	4540.9	4711.0	4669.5	4629.4	4742.8	4893.5	4720.7
47.5°	4655.7	4581.0	4635.0	4709.6	4836.9	4838.2	4886.6	4791.2	4911.5	5045.6	4953.0
50°	4734.5	4698.6	4770.5	4911.5	5107.9	5128.6	5134.1	4998.6	5060.9	5167.3	5033.2
52.5°	4704.1	4691.7	4875.6	5094.0	5381.7	5486.7	5514.4	5347.1	5381.7	5333.3	5210.2
55°	4558.9	4596.3	4781.5	5226.8	5667.9	5992.8	6045.4	5833.8	5614.0	5651.3	5515.8
56°	4359.8	4294.8	4502.2	5076.1	5655.4	6157.4	6200.2	5936.1	5786.8	5738.4	5513.0
57.5°	3698.9	3614.5	3886.9	4567.2	5341.6	6095.2	6127.0	5979.0	5757.8	5659.6	5110.6
60°	2165.4	2206.9	2552.6	3149.9	4120.6	4997.3	5103.7	5211.6	5063.6	4623.9	3803.9
62.5°	1045.4	1019.1	1266.6	1805.9	2511.1	3190.0	3158.2	3461.0	3626.9	3285.4	2401.8
65°	547.6	544.8	691.4	985.9	1380.0	1675.9	1704.9	1868.1	2096.2	1692.5	1219.6
67.5°	402.4	413.4	486.7	692.8	887.7	905.7	901.6	983.1	1005.3	850.4	749.4
70°	315.3	320.8	374.7	526.8	661.0	591.8	579.4	589.1	654.0	681.7	648.5
72.5°	228.2	233.7	279.3	355.4	413.4	403.8	412.1	466.0	546.2	575.2	540.7
75°	152.1	156.3	181.1	217.1	244.7	264.1	279.3	341.5	416.2	432.8	416.2
77.5°	105.1	109.2	125.8	153.5	156.3	168.7	174.2	203.3	248.9	269.6	258.6
80°	59.5	59.5	67.8	78.8	96.8	113.4	116.2	139.7	160.4	174.2	177.0
82.5°	27.7	29.0	36.0	48.4	63.6	78.8	81.6	96.8	112.0	125.8	130.0
85°	13.8	15.2	20.7	29.0	38.7	47.0	45.6	47.0	49.8	47.0	48.4
87.5°	4.1	4.1	5.5	6.9	5.5	6.9	6.9	8.3	9.7	11.1	12.4
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°	2177.8	2177.8	2177.8	2177.8	2177.8	2177.8	2177.8	2177.8	2177.8	2177.8	2177.8
2.5°	2190.3	2194.4	2166.8	2193.0	2183.4	2182.0	2201.3	2198.6	2205.5	2202.7	2186.1
5°	2191.7	2182.0	2211.0	2184.7	2197.2	2223.5	2205.5	2247.0	2226.2	2240.1	2209.6
7.5°	2234.5	2237.3	2231.8	2242.8	2237.3	2249.7	2240.1	2249.7	2233.1	2234.5	2262.2
10°	2271.9	2263.6	2273.2	2259.4	2269.1	2264.9	2242.8	2235.9	2241.4	2234.5	2252.5
12.5°	2341.0	2325.8	2318.9	2302.3	2291.2	2249.7	2215.2	2195.8	2222.1	2226.2	2217.9
15°	2411.5	2412.9	2381.1	2343.8	2274.6	2212.4	2220.7	2227.6	2227.6	2238.7	2217.9
17.5°	2455.8	2455.8	2426.7	2352.1	2281.5	2245.6	2237.3	2215.2	2195.8	2193.0	2191.7
20°	2533.2	2509.7	2443.3	2350.7	2278.8	2262.2	2200.0	2147.4	2107.3	2093.5	2092.1
22.5°	2621.7	2562.2	2469.6	2353.4	2274.6	2251.1	2135.0	2056.1	1984.2	1953.8	1958.0
25°	2703.3	2607.9	2484.8	2341.0	2259.4	2146.0	2016.0	1906.8	1832.1	1807.3	1794.8
27.5°	2760.0	2656.3	2484.8	2352.1	2202.7	2028.5	1895.7	1756.1	1691.1	1674.5	1677.3
30°	2836.0	2717.1	2527.7	2328.5	2089.3	1876.4	1717.4	1626.1	1587.4	1573.6	1583.2
32.5°	3014.4	2876.1	2587.1	2271.9	1955.2	1724.3	1595.7	1544.5	1487.8	1460.2	1450.5
35°	3208.0	3026.8	2645.2	2176.4	1804.5	1586.0	1505.8	1458.8	1391.0	1360.6	1366.2
37.5°	3481.8	3220.4	2649.3	2018.8	1641.3	1508.6	1435.3	1362.0	1306.7	1259.7	1245.9
40°	3851.0	3484.5	2639.7	1852.9	1510.0	1417.3	1363.4	1272.1	1209.9	1176.7	1183.6
42.5°	4175.9	3794.3	2599.6	1664.8	1391.0	1355.1	1294.3	1204.4	1143.5	1109.0	1106.2
45°	4449.7	4022.4	2523.5	1504.4	1291.5	1286.0	1215.4	1146.3	1097.9	1066.1	1079.9
47.5°	4702.7	4206.3	2408.7	1344.0	1200.2	1211.3	1143.5	1100.7	1070.2	1041.2	1039.8
50°	4794.0	4203.6	2307.8	1211.3	1126.9	1121.4	1118.6	1073.0	1041.2	1016.3	1027.4
52.5°	4946.1	4250.6	2198.6	1120.0	1060.6	1062.0	1071.6	1038.4	1002.5	987.3	1001.1
55°	5164.6	4257.5	1958.0	1013.6	1005.3	1014.9	1014.9	992.8	962.4	949.9	943.0
56°	4986.2	4051.5	1756.1	985.9	977.6	977.6	1003.9	979.0	941.7	932.0	923.7
57.5°	4599.0	3549.5	1469.9	952.7	940.3	959.6	973.5	947.2	912.6	898.8	907.1
60°	3172.0	2401.8	1104.8	880.8	880.8	912.6	923.7	885.0	869.7	868.4	857.3
62.5°	1851.5	1399.3	864.2	815.8	818.6	844.9	853.2	831.0	811.7	835.2	846.2
65°	981.8	835.2	741.2	746.7	748.1	768.8	804.8	803.4	802.0	808.9	810.3
67.5°	710.7	694.1	673.4	667.9	670.6	685.8	721.8	749.4	748.1	731.5	719.0
70°	633.3	609.8	597.3	598.7	587.7	605.6	634.7	652.7	620.9	601.5	593.2
72.5°	526.8	519.9	511.6	513.0	490.9	486.7	453.5	453.5	445.2	439.7	449.4
75°	402.4	399.6	403.8	396.8	373.3	348.5	329.1	311.1	283.5	272.4	266.9
77.5°	254.4	262.7	272.4	257.2	247.5	229.5	210.2	192.2	170.1	157.6	157.6
80°	172.8	179.8	186.7	183.9	172.8	156.3	141.0	121.7	106.5	96.8	95.4
82.5°	131.4	136.9	146.6	135.5	124.4	110.6	98.2	84.3	70.5	59.5	59.5
85°	47.0	53.9	59.5	65.0	69.1	70.5	60.8	49.8	40.1	31.8	30.4
87.5°	12.4	13.8	15.2	13.8	13.8	13.8	15.2	13.8	12.4	9.7	9.7
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)