

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: P382945

Luminaire Tested: **GLEON-SA3A-735-U-SL4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P382945
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-SA3A-735-U-SL4
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 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: 12593.6 lumens
Efficiency: N/A
Efficacy: 131.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G3

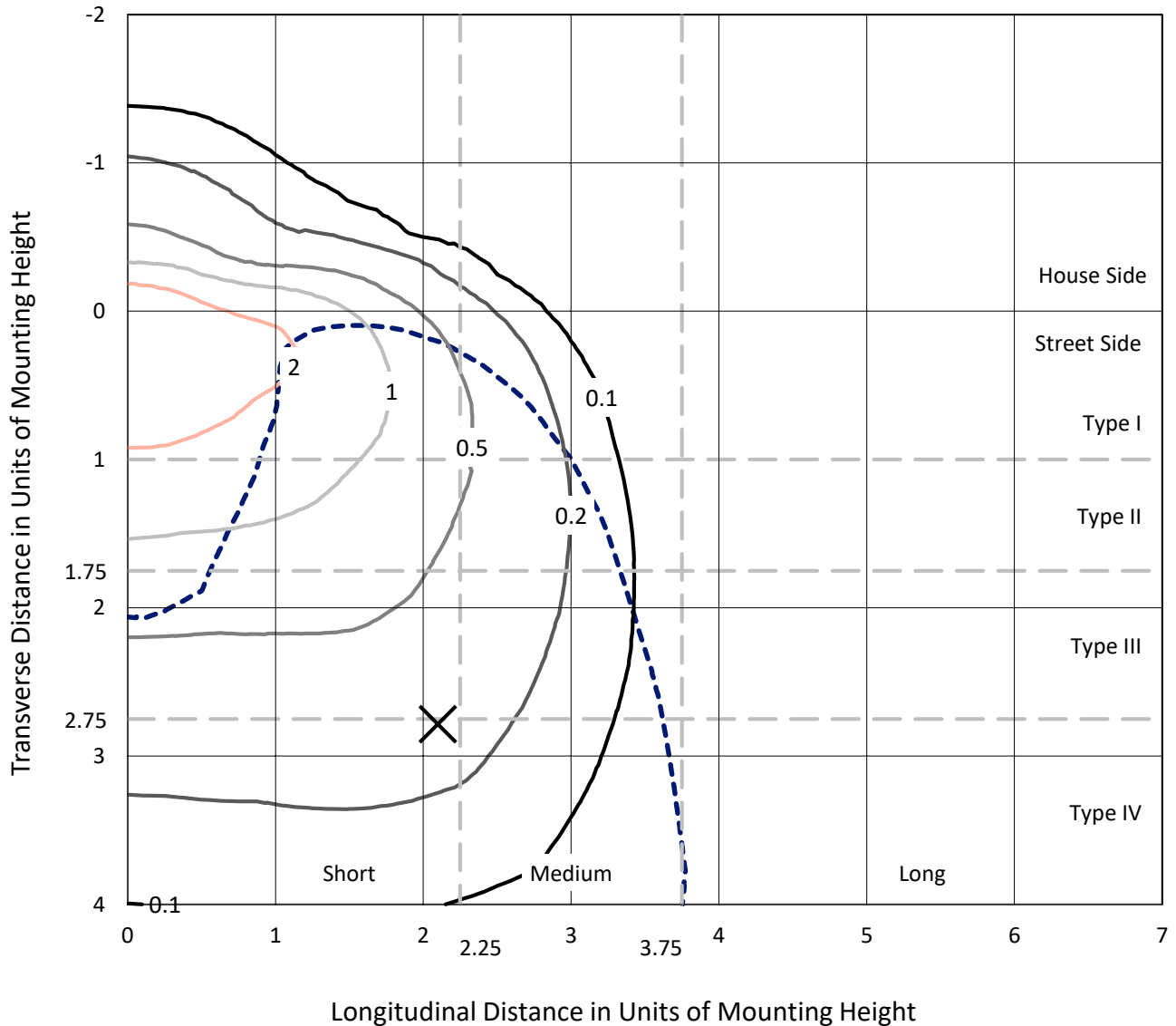
Input Watts (W): 96
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

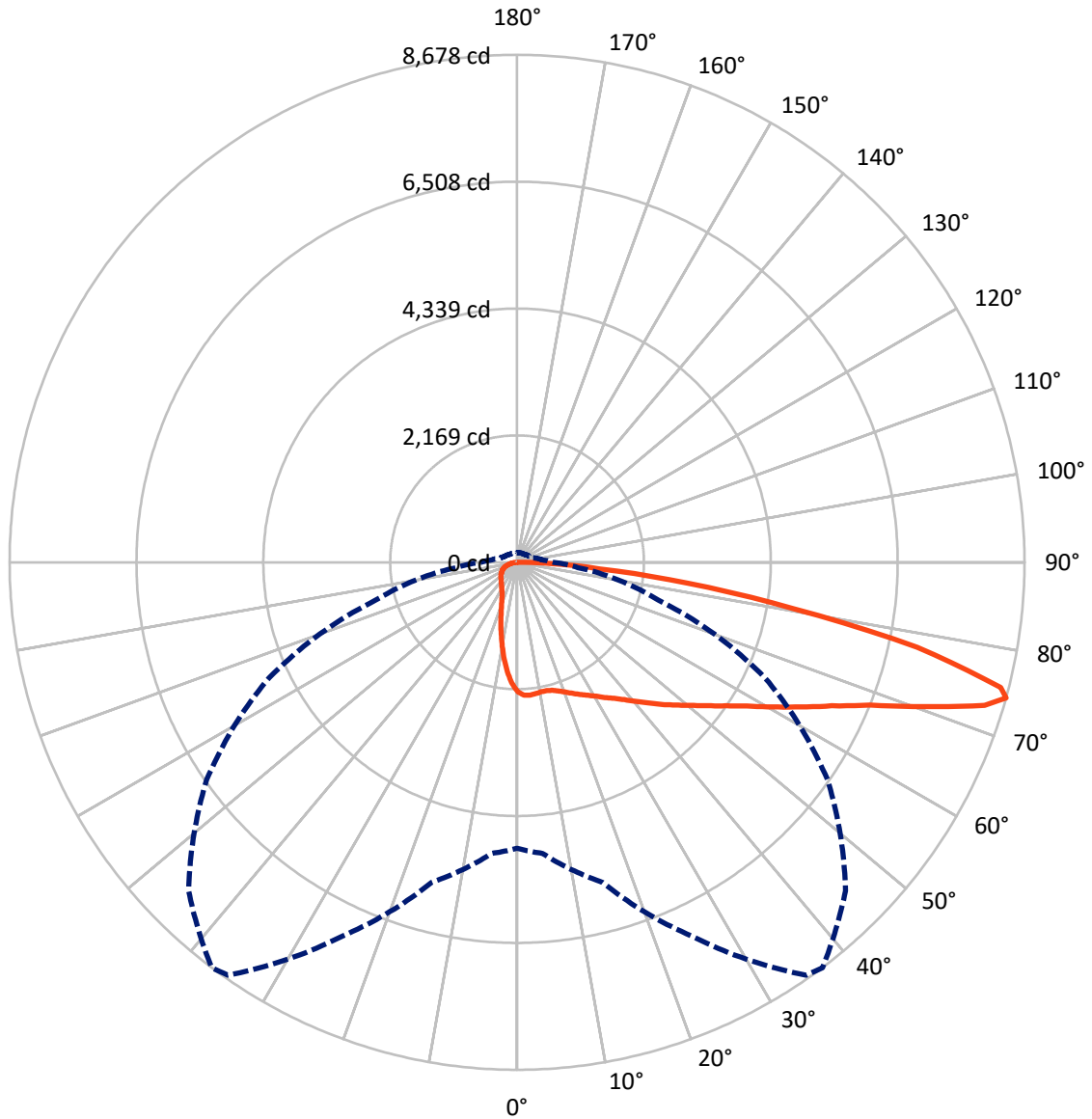
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.6 fc
 Type 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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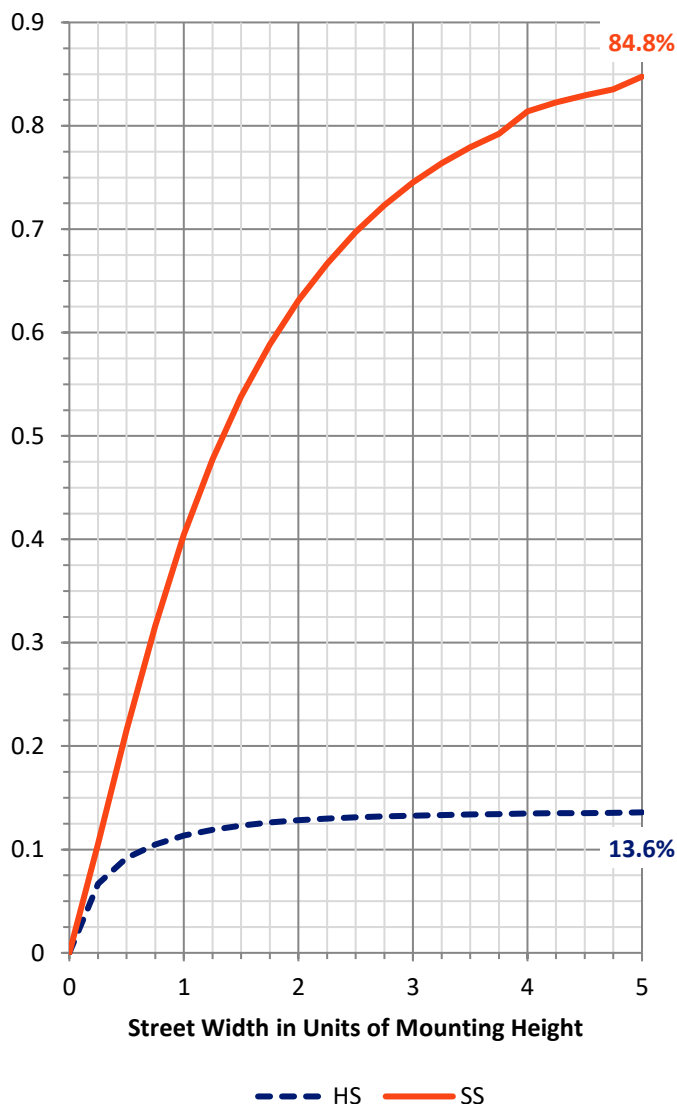
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1732.8	0.0	1732.8
	% Fixture	13.8	0.0	13.8
Street Side	Lumens	10860.8	0.0	10860.8
	% Fixture	86.2	0.0	86.2
Total	Lumens	12593.6	0.0	12593.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	195.4	1.6
10°-20°	500.9	4.0
20°-30°	771.7	6.1
30°-40°	1122.2	8.9
40°-50°	1651.7	13.1
50°-60°	2319.5	18.4
60°-70°	2935.8	23.3
70°-80°	2585.1	20.5
80°-90°	511.1	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°	12593.6	100.0
0°-180°	12593.6	100.0

Coefficient of Utilization



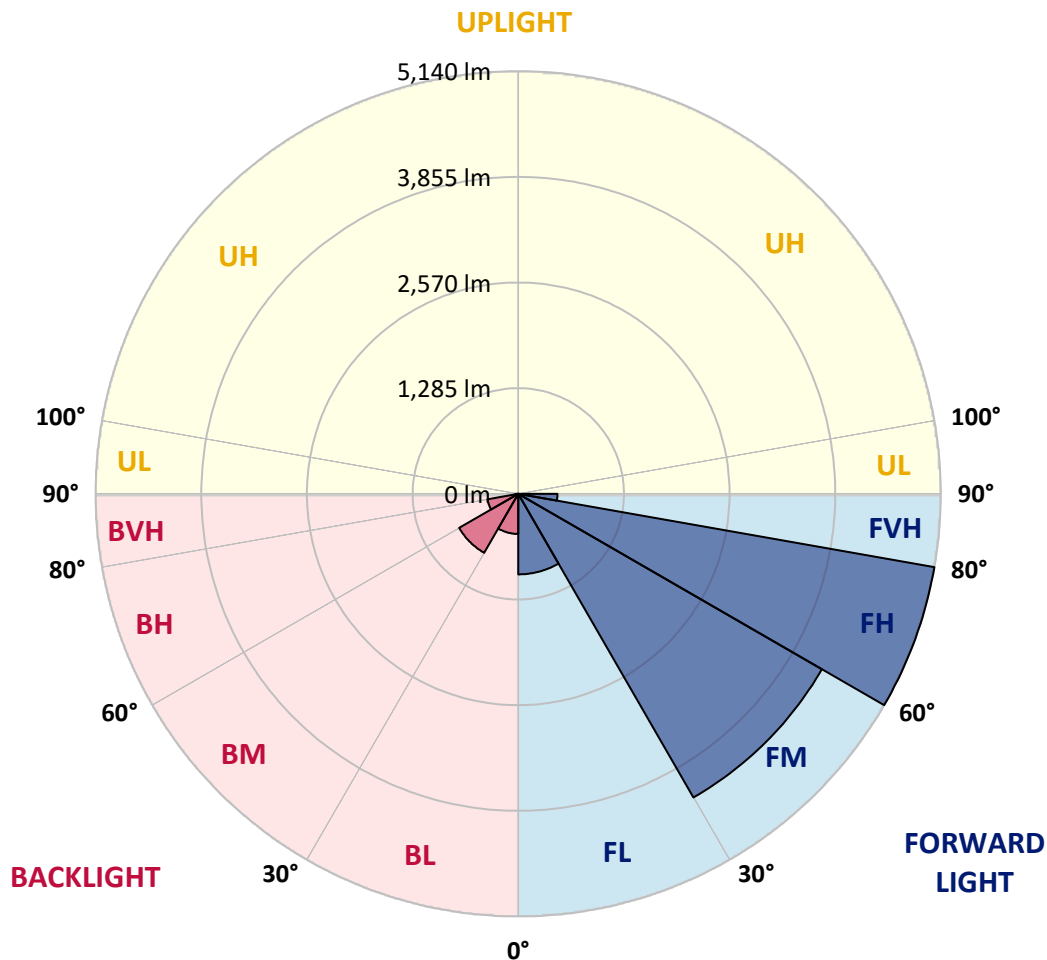
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	979.9	7.8			
FM (30°-60°)	4264.3	33.9			
FH (60°-80°)	5140.1	40.8			G3/7500
FVH (80°-90°)	476.5	3.8			G3/500
BL (0°-30°)	488.1	3.9	B1/500		
BM (30°-60°)	829.2	6.6	B1/1000		
BH (60°-80°)	380.9	3.0	B1/500		G1/500
BVH (80°-90°)	34.6	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	37°	45°	55°	65°	75°	85°
0°	2218.9	2218.9	2218.9	2218.9	2218.9	2218.9	2218.9	2218.9	2218.9	2218.9	2218.9
2.5°	2294.8	2295.2	2294.8	2291.2	2282.9	2275.8	2270.0	2261.5	2242.9	2228.7	2207.4
5°	2316.6	2313.9	2312.1	2305.5	2292.2	2284.2	2273.1	2257.0	2226.5	2198.1	2163.5
7.5°	2306.3	2303.3	2299.2	2291.2	2276.1	2269.5	2254.0	2233.1	2196.3	2159.0	2109.4
10°	2274.8	2273.9	2272.1	2270.4	2257.5	2252.2	2238.0	2215.9	2179.4	2134.2	2076.1
12.5°	2239.8	2242.0	2249.1	2258.4	2252.7	2250.0	2241.1	2226.0	2188.8	2140.0	2069.9
15°	2217.6	2223.8	2242.9	2267.3	2272.1	2271.3	2269.1	2259.3	2219.8	2165.8	2084.1
17.5°	2210.1	2220.3	2256.7	2297.0	2311.2	2314.3	2315.2	2298.3	2254.4	2197.2	2098.7
20°	2223.8	2236.6	2289.9	2345.4	2368.0	2369.8	2365.8	2336.5	2287.2	2224.3	2106.7
22.5°	2265.5	2277.1	2343.6	2406.2	2431.9	2434.5	2422.6	2378.2	2321.9	2256.2	2117.8
25°	2345.8	2360.0	2426.6	2489.1	2502.4	2502.9	2485.6	2430.5	2367.1	2301.0	2141.7
27.5°	2450.5	2464.7	2524.6	2585.8	2578.7	2574.7	2551.2	2496.2	2426.1	2362.7	2184.4
30°	2567.2	2582.7	2639.4	2683.0	2666.1	2658.1	2639.1	2568.1	2508.2	2447.0	2249.6
32.5°	2687.8	2702.0	2751.7	2781.4	2760.2	2756.6	2727.8	2663.0	2615.0	2575.6	2355.1
35°	2811.6	2821.8	2870.6	2887.4	2859.1	2858.2	2850.2	2790.7	2760.5	2779.2	2508.7
37.5°	2938.0	2940.7	2982.4	2983.3	2974.9	2978.4	2986.8	2949.6	2958.0	3016.1	2708.3
40°	3050.7	3057.8	3088.0	3097.3	3111.9	3124.3	3166.5	3142.1	3207.3	3310.3	2956.6
42.5°	3134.1	3147.9	3196.2	3220.2	3267.7	3287.2	3346.6	3369.2	3500.6	3654.9	3252.1
45°	3204.6	3225.9	3303.5	3352.8	3433.1	3467.2	3552.5	3628.3	3831.9	4028.9	3563.1
47.5°	3280.9	3308.0	3405.2	3499.2	3608.3	3646.9	3801.7	3915.3	4185.4	4405.1	3856.3
50°	3393.2	3414.0	3509.0	3656.7	3792.9	3842.5	4056.8	4219.6	4544.8	4763.5	4110.5
52.5°	3549.8	3541.7	3622.0	3829.2	4012.0	4073.2	4329.2	4543.4	4909.0	5087.7	4325.2
55°	3707.3	3694.0	3750.3	4009.8	4267.5	4331.9	4629.0	4868.6	5255.4	5379.7	4489.8
57.5°	3882.5	3857.2	3904.7	4213.4	4558.5	4635.3	4964.9	5214.2	5596.2	5615.6	4594.5
60°	4063.0	4028.9	4082.1	4465.8	4928.1	5018.5	5357.9	5551.4	5917.3	5804.7	4628.2
62.5°	4220.9	4197.0	4279.1	4747.5	5344.7	5444.0	5743.8	5909.8	6234.1	5883.2	4506.6
65°	4358.9	4362.9	4504.9	5064.3	5809.1	5915.1	6186.6	6351.7	6483.4	5836.6	4222.3
67.5°	4523.5	4546.1	4788.3	5481.2	6393.8	6510.0	6830.8	6833.4	6622.7	5563.3	3662.5
70°	4763.5	4810.0	5178.3	6059.7	7225.1	7384.8	7632.4	7116.4	6427.0	4822.5	2881.7
72.5°	4976.4	5063.3	5593.0	6721.6	8238.3	8359.4	8101.2	6953.2	5609.5	3614.1	1795.3
74°	4889.9	4997.8	5668.5	7047.6	8619.8	8677.9	7942.8	6476.7	4677.0	2502.9	1043.3
75°	4703.6	4820.8	5558.5	7044.5	8571.4	8539.0	7560.4	5932.4	3851.9	1707.1	694.3
77.5°	3796.0	3919.8	4683.6	6037.5	7028.2	6997.5	5807.7	3979.7	1687.0	559.9	352.7
80°	2206.9	2301.5	2907.5	3834.2	4739.1	4794.6	3819.5	1969.2	663.6	314.5	239.1
82.5°	980.4	1045.6	1404.5	1957.2	2859.9	2931.4	2000.2	1031.9	409.9	191.2	143.7
85°	643.2	691.6	852.6	932.0	1361.9	1410.6	979.1	803.4	270.6	105.2	105.5
87.5°	462.7	509.3	633.5	553.2	625.1	591.8	532.8	743.5	108.7	59.9	35.5
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°	2218.9	2218.9	2218.9	2218.9	2218.9	2218.9	2218.9	2218.9	2218.9	2218.9	2218.9
2.5°	2198.1	2191.0	2175.1	2144.9	2128.0	2113.8	2090.3	2076.5	2070.4	2069.9	2072.5
5°	2143.5	2127.1	2085.8	2035.2	1994.9	1958.1	1912.4	1884.9	1865.4	1853.9	1856.9
7.5°	2080.1	2054.3	1989.6	1908.8	1844.1	1772.6	1702.1	1660.0	1627.1	1602.7	1607.2
10°	2036.6	2001.2	1906.6	1790.4	1682.7	1578.8	1481.6	1423.6	1377.4	1341.9	1344.6
12.5°	2022.0	1974.0	1843.2	1688.0	1536.7	1394.7	1267.8	1178.7	1131.2	1090.8	1093.9
15°	2024.2	1959.9	1790.0	1595.6	1405.3	1226.6	1072.7	968.4	904.1	876.1	876.6
17.5°	2025.9	1943.5	1734.1	1496.7	1275.4	1069.5	902.3	796.8	735.9	710.2	710.7
20°	2020.2	1916.8	1664.9	1383.2	1139.7	925.4	763.5	673.9	627.7	607.7	607.7
22.5°	2012.7	1885.4	1586.8	1269.1	1005.7	800.3	664.1	595.7	569.2	555.9	555.4
25°	2016.2	1861.8	1507.0	1152.0	882.4	700.4	598.0	552.8	535.0	526.6	526.1
27.5°	2035.2	1850.7	1433.3	1035.4	774.6	625.5	553.6	521.7	510.1	504.8	504.8
30°	2069.9	1850.7	1356.5	936.0	685.0	570.0	519.4	497.7	489.7	486.2	486.2
32.5°	2130.3	1861.0	1282.5	837.6	613.5	526.6	491.1	476.4	470.2	468.5	468.5
35°	2234.0	1895.5	1210.2	744.4	555.9	491.1	464.0	455.6	451.1	450.7	452.1
37.5°	2380.0	1966.1	1142.3	675.7	515.1	462.2	441.4	434.8	432.1	434.3	436.1
40°	2563.6	2061.9	1080.6	613.5	483.9	439.1	420.5	416.1	414.8	417.9	420.5
42.5°	2785.4	2191.5	1030.1	568.7	460.0	419.7	402.8	397.5	396.2	399.7	403.3
45°	3025.4	2330.7	994.6	535.5	441.4	405.0	387.2	381.5	378.9	380.6	384.6
47.5°	3243.6	2462.5	980.4	511.9	423.7	392.6	373.6	366.4	362.0	361.1	364.2
50°	3427.8	2560.5	987.1	497.7	409.4	378.9	360.2	352.2	345.6	341.6	343.8
52.5°	3561.8	2622.2	993.2	491.5	398.3	363.8	345.6	338.1	329.1	322.5	322.5
55°	3658.9	2636.4	979.5	486.6	389.9	347.4	329.1	322.0	313.2	305.6	304.8
57.5°	3697.0	2596.4	928.5	479.6	384.2	331.8	311.9	306.6	299.0	290.1	289.7
60°	3645.6	2473.2	830.0	464.5	376.6	319.0	294.6	291.0	287.5	279.0	278.6
62.5°	3438.9	2202.6	702.7	433.8	361.5	305.2	278.6	280.4	280.8	275.0	274.2
65°	3064.0	1830.8	578.5	394.0	338.9	288.8	262.1	270.6	275.5	274.6	273.2
67.5°	2519.3	1424.9	490.2	351.8	309.2	266.1	244.4	254.2	258.2	261.3	260.4
70°	1869.8	1004.8	405.5	307.4	273.2	239.6	221.3	226.3	223.6	227.1	228.4
72.5°	1042.5	602.9	330.5	263.1	236.0	208.5	195.6	194.8	189.0	189.0	189.0
74°	625.5	442.3	290.5	235.6	213.4	188.1	177.0	173.0	167.7	168.1	167.7
75°	503.0	380.2	266.6	217.3	197.4	176.2	165.0	159.7	155.7	155.7	155.3
77.5°	317.7	288.8	214.7	173.0	157.9	145.0	137.5	130.4	130.4	130.0	129.6
80°	240.0	229.8	167.2	130.9	121.1	111.3	106.5	103.4	103.4	104.7	104.2
82.5°	164.6	173.0	117.6	91.4	86.5	79.4	78.5	79.0	77.6	75.8	75.5
85°	120.3	130.0	79.4	57.7	52.8	48.3	51.9	53.7	51.4	47.5	45.6
87.5°	46.1	85.1	42.6	23.9	22.2	19.1	22.2	23.1	24.9	19.6	19.9
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)