

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: P651782

Luminaire Tested: **GALN-SA3A-840-U-SL2**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P651782
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-14)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA3A-840-U-SL2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11460.3 lumens
Efficiency: N/A
Efficacy: 123.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G3

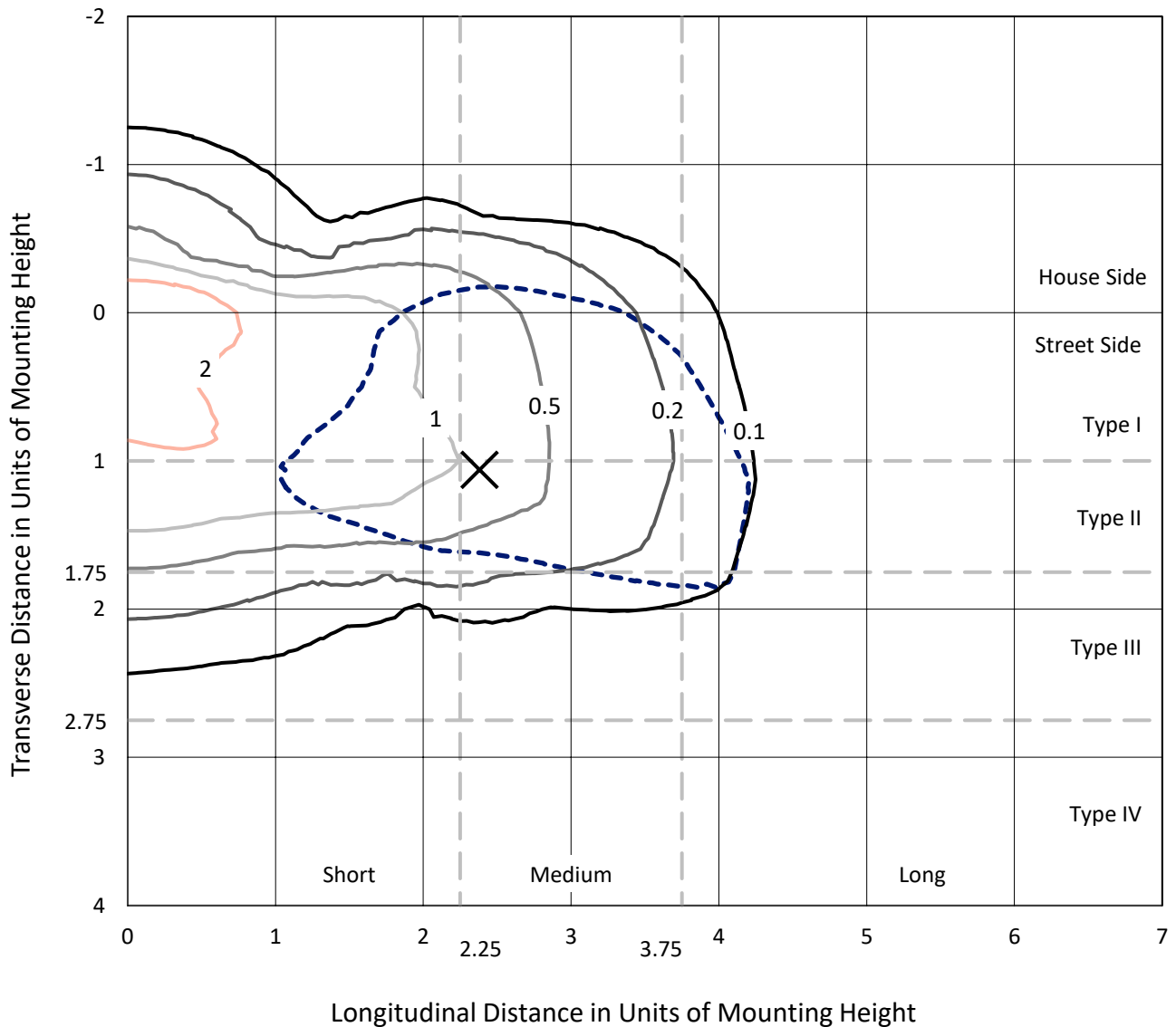
Input Watts (W): 93
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

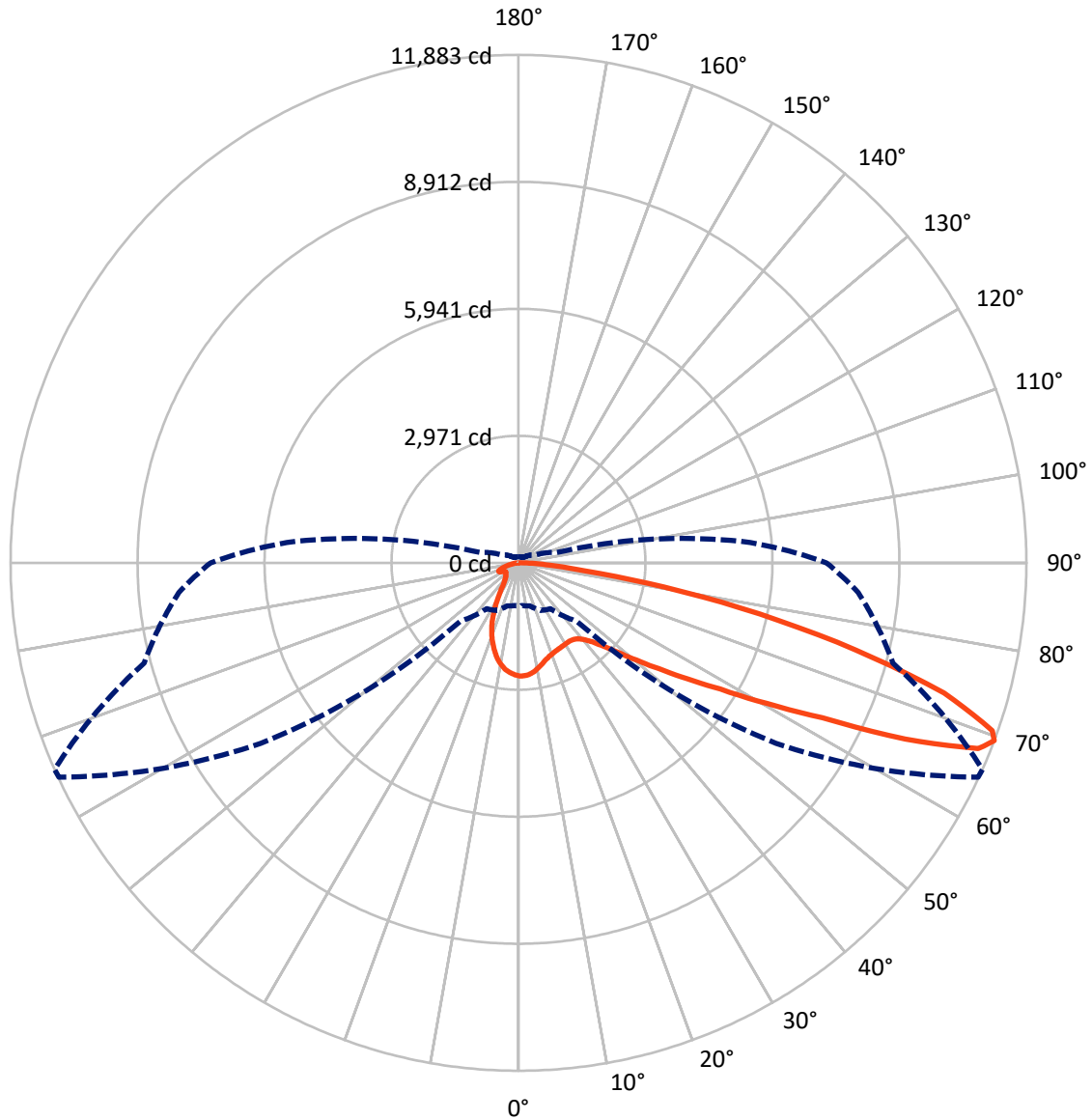
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.2 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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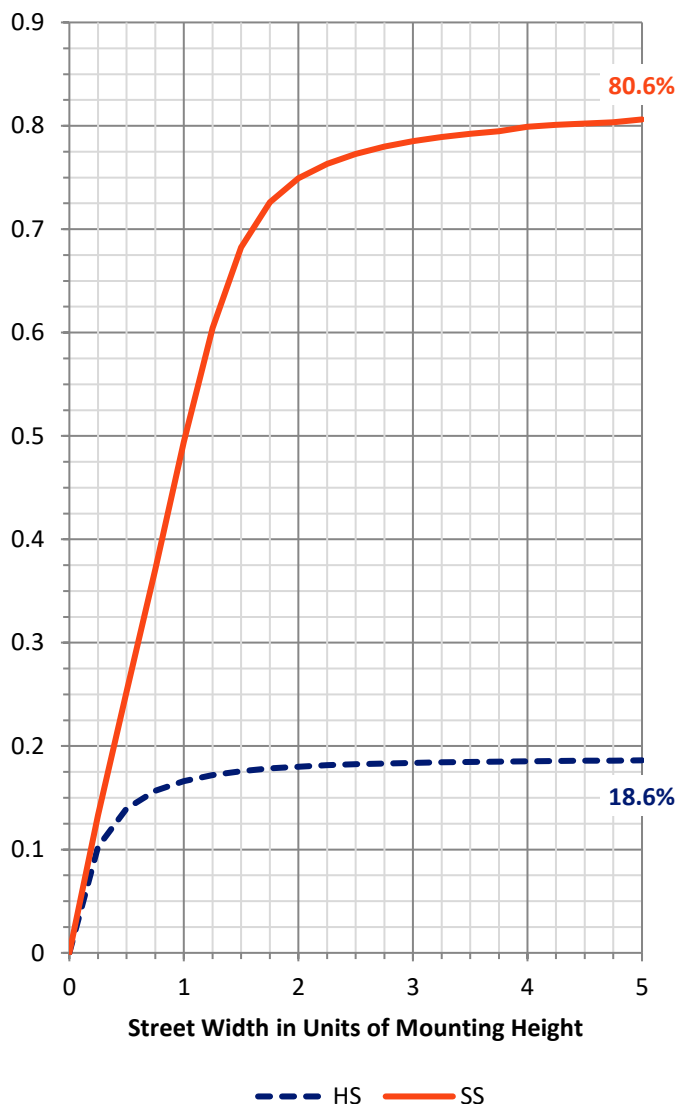
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2155.2	0.0	2155.2
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	9305.1	0.0	9305.1
	% Fixture	81.2	0.0	81.2
Total	Lumens	11460.3	0.0	11460.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	229.8	2.0
10°-20°	545.1	4.8
20°-30°	742.1	6.5
30°-40°	997.2	8.7
40°-50°	1489.0	13.0
50°-60°	2368.5	20.7
60°-70°	2913.2	25.4
70°-80°	1895.4	16.5
80°-90°	279.9	2.4
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°	11460.3	100.0
0°-180°	11460.3	100.0

Coefficient of Utilization

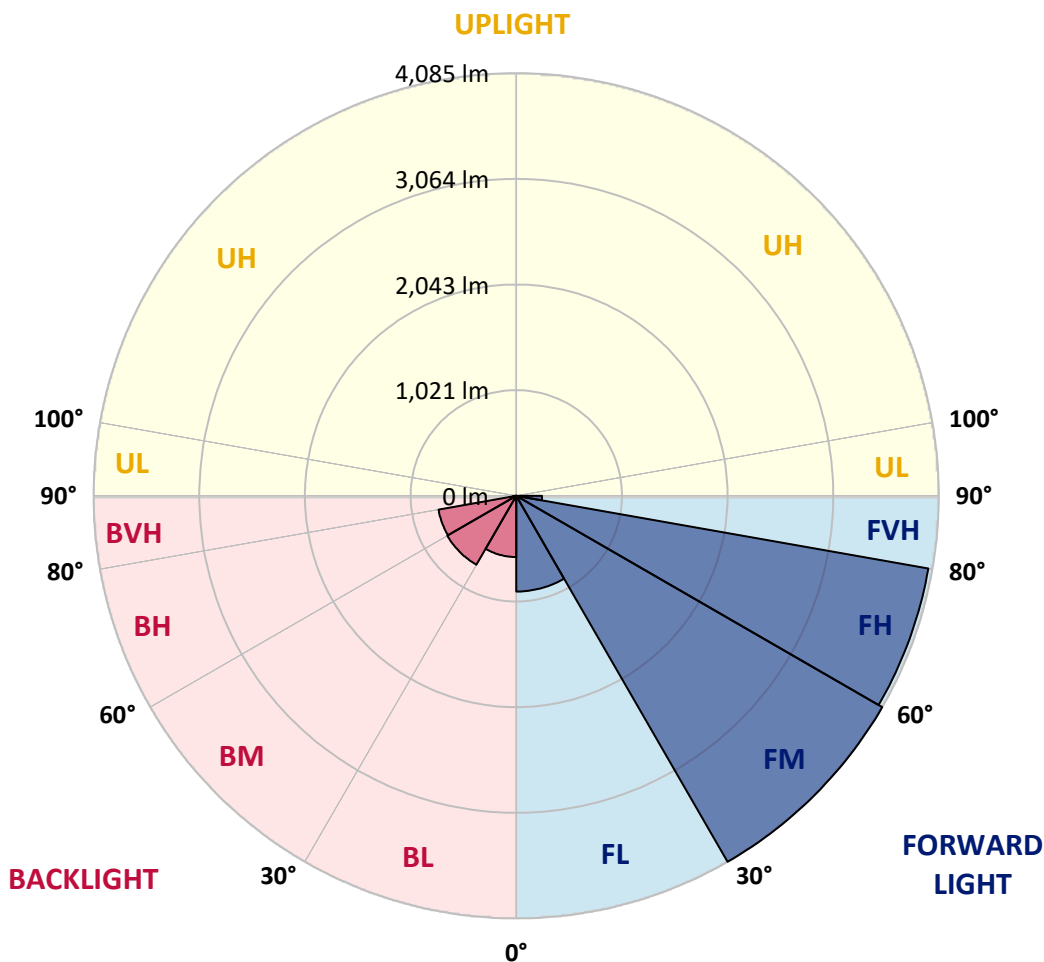


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	925.4	8.1			
FM (30°-60°)	4085.3	35.6			
FH (60°-80°)	4045.5	35.3			G2/5000
FVH (80°-90°)	248.8	2.2			G3/500
BL (0°-30°)	591.6	5.2	B2/1000		
BM (30°-60°)	769.5	6.7	B1/1000		
BH (60°-80°)	763.1	6.7	B2/1000		G2/1000
BVH (80°-90°)	31.0	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-G3
 Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	2646.5	2646.5	2646.5	2646.5	2646.5	2646.5	2646.5	2646.5	2646.5	2646.5	2646.5
2.5°	2553.9	2564.0	2575.4	2588.1	2612.2	2625.5	2635.1	2645.9	2647.1	2652.9	2648.4
5°	2365.3	2377.4	2394.6	2418.6	2454.9	2511.3	2569.7	2617.3	2623.0	2649.7	2657.3
7.5°	2208.0	2214.9	2228.9	2267.6	2319.1	2381.9	2466.9	2563.4	2577.3	2640.8	2663.0
10°	2079.8	2086.8	2103.3	2143.2	2194.0	2272.7	2366.0	2492.9	2504.3	2613.5	2664.3
12.5°	1983.9	1990.3	2008.1	2047.4	2105.8	2179.4	2282.2	2416.8	2433.3	2577.3	2652.2
15°	1910.9	1923.0	1937.6	1970.0	2031.5	2102.6	2202.2	2347.0	2360.3	2539.2	2643.9
17.5°	1879.8	1885.5	1895.7	1925.6	1970.6	2040.4	2140.7	2292.4	2308.2	2512.6	2642.1
20°	1881.1	1886.8	1888.7	1905.2	1937.6	1997.9	2096.9	2249.2	2268.3	2489.1	2645.2
22.5°	1924.3	1924.9	1917.9	1912.2	1924.9	1975.0	2065.8	2216.9	2239.1	2478.9	2647.8
25°	1990.9	2002.3	1992.2	1965.5	1942.0	1966.2	2053.7	2199.0	2220.0	2464.4	2644.6
27.5°	2098.8	2100.7	2092.5	2056.2	1995.4	1977.6	2048.7	2185.8	2203.5	2453.5	2628.7
30°	2243.5	2237.8	2230.2	2190.2	2094.3	2021.3	2059.4	2173.6	2192.1	2437.7	2609.7
32.5°	2390.1	2407.9	2400.9	2354.0	2229.6	2106.5	2094.3	2172.4	2187.6	2425.6	2588.8
35°	2545.6	2553.9	2586.8	2562.7	2435.2	2244.1	2159.7	2192.1	2204.2	2426.3	2574.1
37.5°	2667.5	2689.7	2767.1	2788.0	2668.1	2426.3	2265.7	2247.9	2253.0	2457.4	2579.9
40°	2814.7	2852.8	2952.4	3038.1	2959.4	2663.0	2446.0	2351.4	2357.7	2532.3	2617.3
42.5°	3001.3	3027.9	3161.8	3278.0	3265.3	2975.9	2664.3	2520.8	2524.0	2681.4	2722.1
45°	3219.6	3257.7	3408.1	3582.6	3612.4	3330.0	2979.7	2777.2	2775.3	2913.1	2917.5
47.5°	3498.8	3522.4	3671.5	3861.9	3982.5	3774.9	3362.4	3145.3	3125.1	3250.7	3214.6
50°	3755.9	3792.7	3905.7	4113.8	4414.0	4296.0	3865.7	3622.6	3575.0	3692.4	3631.5
52.5°	3863.8	3902.5	3997.7	4256.0	4784.0	4970.0	4504.7	4191.9	4112.6	4202.6	4180.4
55°	3676.5	3726.7	3815.5	4129.6	4946.5	5747.4	5366.6	4850.0	4792.3	4753.6	4759.9
57.5°	3173.3	3220.9	3340.8	3687.4	4752.3	6311.6	6597.2	5696.0	5572.2	5393.9	5424.4
60°	2415.5	2445.3	2507.5	2891.4	4176.7	6458.2	7994.7	6765.4	6686.7	6031.7	6053.3
62.5°	1715.5	1749.1	1792.3	1983.9	3057.8	6045.1	9088.9	8258.7	7977.6	6692.4	6671.5
65°	1393.0	1370.2	1422.3	1511.8	1794.2	4685.0	9335.1	10331.5	9944.4	7562.5	7271.9
67.5°	1145.5	1121.5	1172.9	1332.1	1364.5	2719.5	8447.8	11676.9	11599.6	8508.8	7881.8
69°	1014.2	1001.5	1046.5	1228.0	1309.9	1931.3	7359.4	11864.2	11882.6	9066.7	7975.7
70°	913.9	919.0	962.8	1175.4	1285.1	1592.3	6290.0	11605.9	11762.1	9345.3	7874.1
72.5°	672.7	683.5	744.5	973.5	1261.7	1351.2	3743.2	10137.3	10413.3	9361.8	7203.3
75°	470.3	465.2	519.1	733.0	1191.9	1339.1	2198.5	7839.9	8152.7	8091.8	6052.7
77.5°	307.8	316.0	359.2	517.9	1002.7	1328.9	1433.1	5562.1	5765.2	5411.7	3580.1
80°	217.1	216.4	240.5	353.5	743.8	1276.9	1173.4	3505.8	3454.4	2126.7	1061.8
82.5°	124.4	133.3	161.2	248.8	497.5	1124.0	1079.5	1676.8	1530.8	606.1	358.6
85°	69.2	72.3	95.9	150.4	290.6	846.6	942.4	762.9	719.7	253.2	154.2
87.5°	22.2	24.1	39.9	76.2	132.0	399.8	533.8	352.2	325.0	91.4	62.2
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°	2646.5	2646.5	2646.5	2646.5	2646.5	2646.5	2646.5	2646.5	2646.5	2646.5	2646.5
2.5°	2650.3	2657.9	2637.6	2617.9	2600.2	2575.4	2553.2	2534.8	2522.1	2520.2	2513.8
5°	2659.2	2659.8	2621.1	2569.1	2518.3	2462.4	2404.7	2363.5	2324.7	2303.2	2292.4
7.5°	2665.5	2659.8	2590.0	2505.6	2407.9	2306.4	2204.8	2123.5	2060.7	2036.0	2045.5
10°	2663.0	2645.2	2543.0	2407.9	2265.7	2114.0	1968.0	1853.8	1749.1	1695.1	1696.5
12.5°	2649.1	2619.9	2473.2	2298.1	2089.3	1886.2	1662.8	1508.6	1387.3	1315.7	1293.5
15°	2637.0	2586.2	2391.4	2148.9	1889.4	1599.3	1327.1	1136.7	1035.1	978.7	978.0
17.5°	2624.3	2553.9	2301.9	1990.9	1659.6	1286.5	1000.9	855.5	807.9	813.6	804.1
20°	2611.0	2515.8	2208.6	1815.1	1379.7	959.6	749.5	690.5	703.8	729.8	733.7
22.5°	2595.7	2475.1	2108.3	1621.5	1085.2	722.3	608.0	599.1	633.4	674.0	679.7
25°	2572.3	2424.4	1982.0	1419.1	837.1	582.0	532.4	538.8	572.5	606.7	610.6
27.5°	2539.2	2361.5	1854.5	1166.5	628.9	499.5	486.8	495.0	511.5	532.4	537.6
30°	2494.8	2290.5	1707.8	948.1	503.9	458.3	453.1	457.6	467.1	476.0	478.5
32.5°	2450.4	2221.9	1560.0	726.0	449.3	430.9	425.9	425.9	425.9	427.1	427.7
35°	2409.1	2157.2	1401.3	565.5	420.8	409.3	402.3	394.8	393.5	389.0	389.0
37.5°	2386.3	2098.1	1232.5	473.5	399.8	391.6	382.1	369.4	362.4	363.1	361.7
40°	2390.7	2059.4	1078.9	421.4	382.7	373.8	359.2	344.6	340.2	340.2	338.9
42.5°	2440.8	2046.7	931.7	394.1	366.2	356.1	337.7	324.3	321.8	321.1	322.4
45°	2556.4	2077.9	799.6	376.3	352.2	337.0	318.6	306.5	304.0	304.0	303.3
47.5°	2781.7	2178.8	705.1	364.9	342.1	322.4	303.3	291.3	286.9	285.6	285.6
50°	3132.1	2397.7	634.6	354.7	329.4	309.1	289.4	275.4	268.4	267.9	267.2
52.5°	3618.8	2739.1	607.4	347.2	315.5	295.1	273.6	260.2	251.3	249.4	248.2
55°	4188.1	3215.8	644.8	341.4	300.8	279.2	257.0	243.0	234.8	231.0	230.3
57.5°	4847.4	3788.3	787.0	333.8	287.5	262.1	240.5	226.6	217.7	213.3	212.0
60°	5439.6	4376.6	1035.1	329.4	276.1	243.7	221.5	208.8	200.6	196.1	195.4
62.5°	6090.1	4937.6	1331.5	341.4	271.0	226.0	203.7	192.3	185.4	180.9	180.9
65°	6785.1	5499.3	1527.6	382.1	278.6	212.0	184.7	175.2	168.8	165.7	165.0
67.5°	7253.5	5693.5	1258.6	423.9	297.6	196.7	166.3	158.7	154.8	151.7	151.7
69°	7202.7	5447.8	928.5	434.7	303.3	189.1	156.1	150.4	145.3	144.1	142.8
70°	7042.1	5167.9	778.1	427.7	298.9	182.2	149.8	142.8	138.3	137.1	136.4
72.5°	6272.3	4481.9	579.4	371.9	254.5	158.0	132.6	126.3	122.4	120.6	120.6
75°	5211.2	3663.2	452.5	295.8	199.3	133.3	113.6	108.5	105.4	104.1	103.4
77.5°	2920.7	2045.5	325.0	231.6	151.0	107.9	95.2	90.7	87.5	86.3	86.3
80°	813.6	584.5	191.0	153.0	102.9	81.8	75.5	72.3	67.9	64.8	66.6
82.5°	306.5	253.2	109.2	92.0	65.3	54.6	52.6	50.1	48.3	43.8	43.8
85°	149.1	123.1	69.8	48.9	36.2	28.6	27.2	26.0	24.7	21.6	22.2
87.5°	51.4	54.6	30.4	17.7	10.8	7.0	5.7	3.2	3.2	3.2	3.2
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)