

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: P452317

Luminaire Tested: **GALN-SA3B-730-U-SL4-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P452317
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-19)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA3B-730-U-SL4-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12725 lumens
Efficiency: N/A
Efficacy: 105.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G3

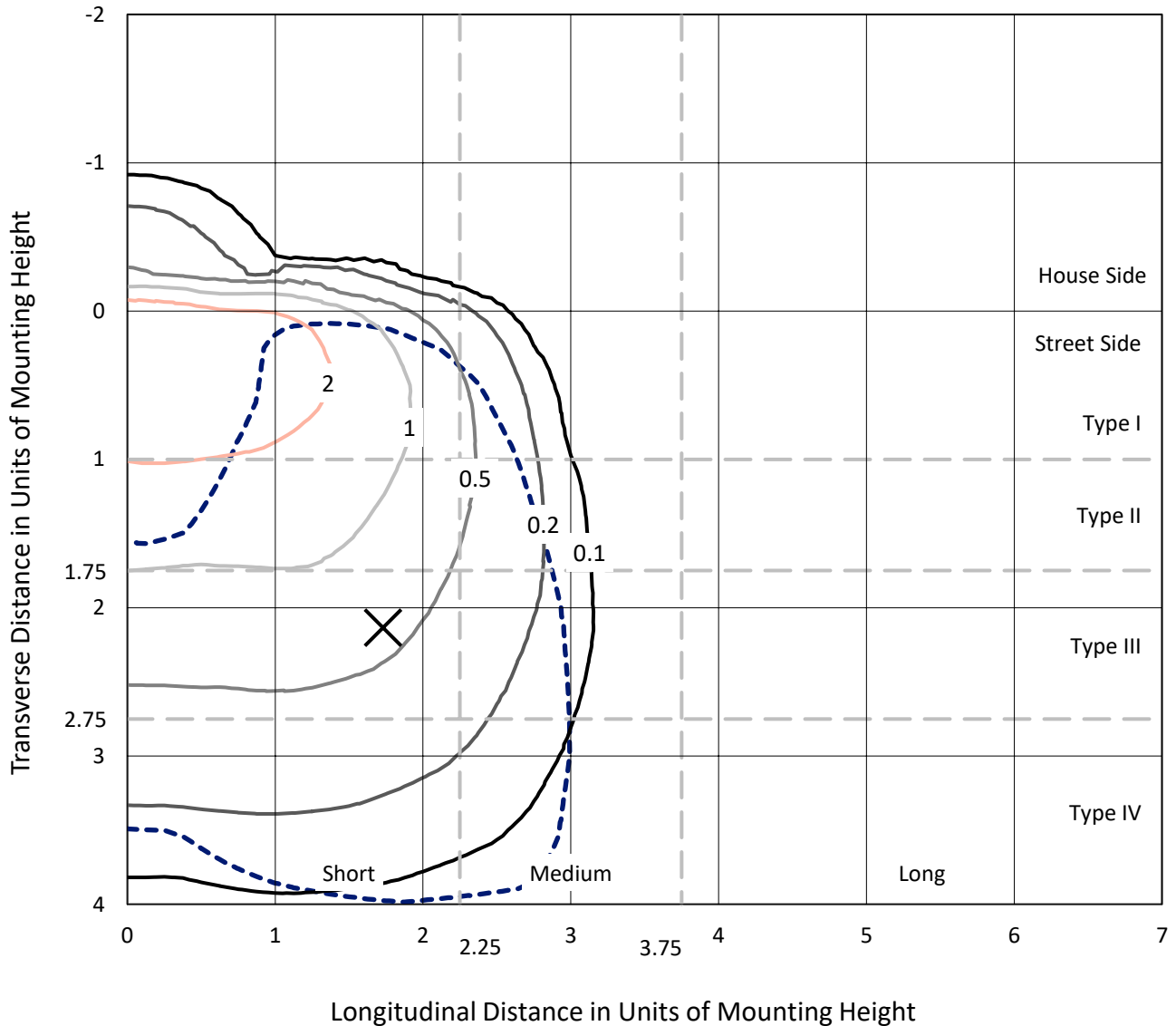
Input Watts (W): 121
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

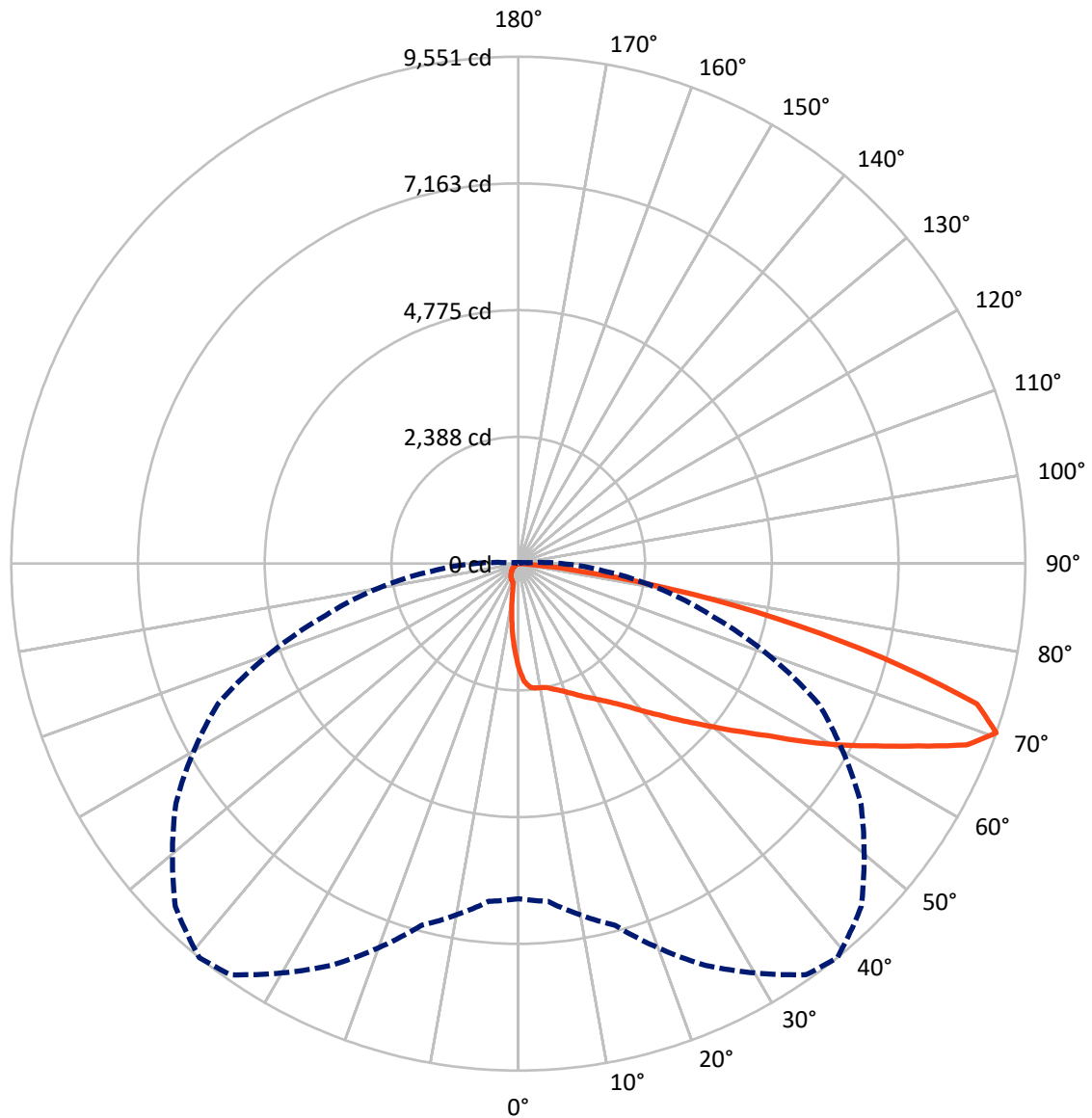
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.8 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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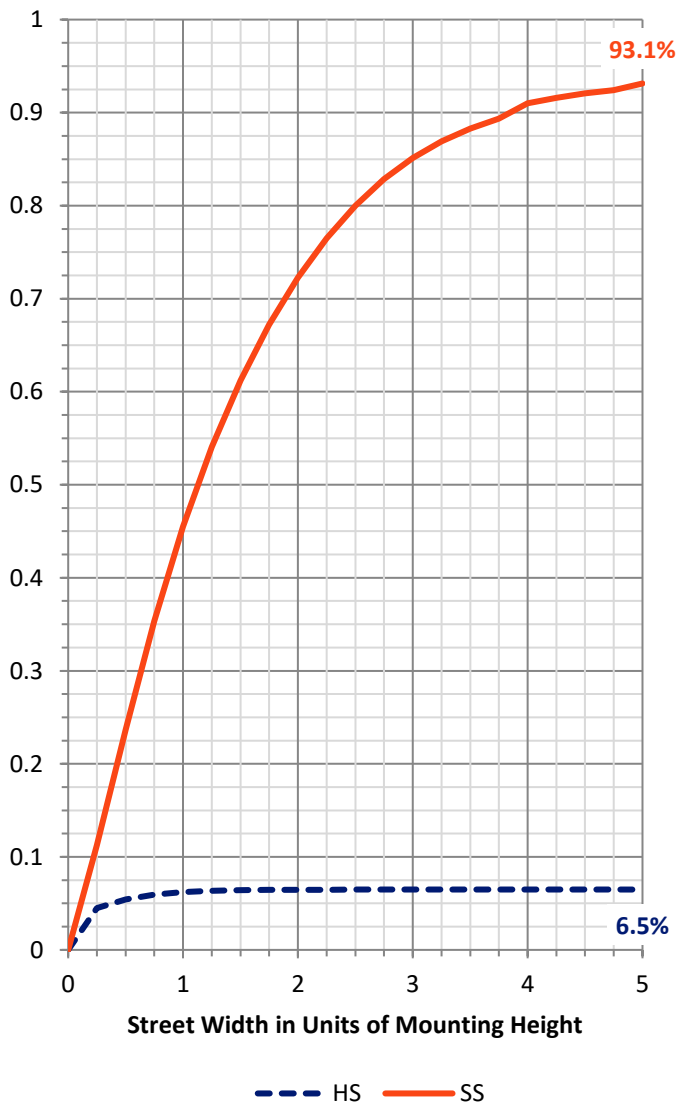
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	829.7	0.0	829.7
	% Fixture	6.5	0.0	6.5
Street Side	Lumens	11895.3	0.0	11895.3
	% Fixture	93.5	0.0	93.5
Total	Lumens	12725.0	0.0	12725.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	169.4	1.3
10°-20°	440.1	3.5
20°-30°	737.3	5.8
30°-40°	1143.4	9.0
40°-50°	1812.0	14.2
50°-60°	2656.1	20.9
60°-70°	3404.5	26.8
70°-80°	2139.3	16.8
80°-90°	222.9	1.8
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°	12725.0	100.0
0°-180°	12725.0	100.0

Coefficient of Utilization



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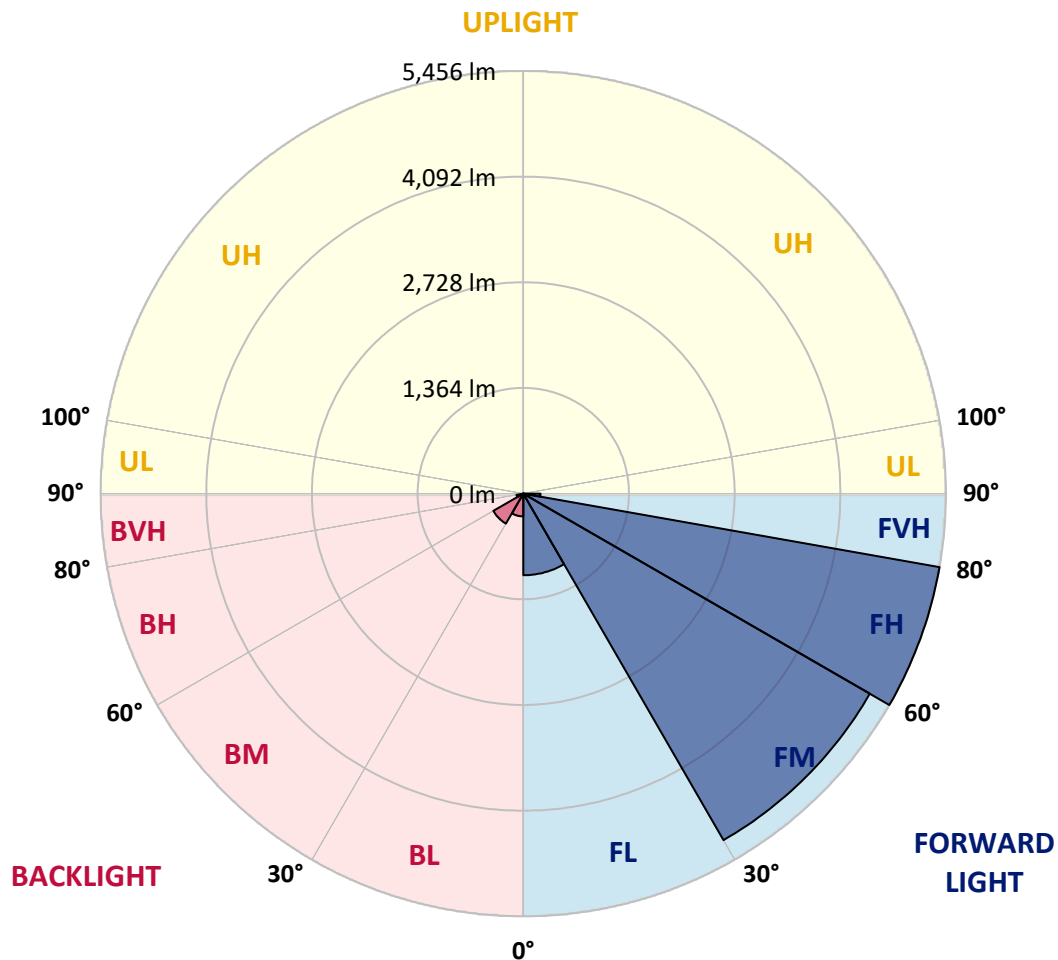
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1052.9	8.3			
FM (30°-60°)	5165.1	40.6			
FH (60°-80°)	5456.1	42.9			G3/7500
FVH (80°-90°)	221.2	1.7			G2/225
BL (0°-30°)	293.8	2.3	B1/500		
BM (30°-60°)	446.5	3.5	B1/1000		
BH (60°-80°)	87.7	0.7	B0/110		G0/110
BVH (80°-90°)	1.6	0.0			G0/10
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°	39°	45°	55°	65°	75°	85°
0°	1985.5	1985.5	1985.5	1985.5	1985.5	1985.5	1985.5	1985.5	1985.5	1985.5	1985.5
2.5°	2294.2	2286.5	2276.3	2264.3	2230.1	2224.1	2203.6	2160.0	2107.8	2065.1	2006.1
5°	2402.8	2407.1	2399.4	2378.0	2353.2	2338.7	2313.0	2245.5	2177.9	2091.6	1994.9
7.5°	2427.6	2436.2	2426.8	2406.2	2382.3	2366.9	2346.4	2288.2	2209.6	2111.2	1978.7
10°	2425.1	2435.3	2429.3	2410.5	2390.9	2376.3	2354.1	2307.9	2244.6	2141.2	1983.8
12.5°	2420.8	2434.5	2433.6	2424.2	2408.0	2396.8	2383.2	2342.1	2283.1	2184.8	2012.0
15°	2408.8	2425.9	2441.3	2449.0	2449.9	2449.9	2432.8	2389.1	2332.7	2242.1	2048.8
17.5°	2413.9	2433.6	2472.1	2494.3	2509.7	2508.0	2490.0	2443.0	2380.6	2301.1	2087.3
20°	2445.6	2472.1	2526.0	2570.4	2585.8	2580.7	2556.7	2502.0	2431.0	2351.5	2124.9
22.5°	2523.4	2547.3	2614.9	2667.0	2678.2	2664.5	2630.3	2555.9	2491.8	2406.2	2170.2
25°	2639.7	2667.9	2730.3	2769.7	2769.7	2762.0	2714.1	2626.9	2560.2	2482.3	2229.2
27.5°	2780.8	2804.7	2866.3	2901.3	2880.8	2858.6	2810.7	2705.5	2641.4	2578.1	2300.2
30°	2923.6	2939.0	3004.0	3019.3	2998.0	2969.8	2918.4	2813.3	2756.8	2708.1	2402.8
32.5°	3058.7	3092.0	3145.9	3142.5	3113.4	3099.7	3052.7	2940.7	2909.0	2903.9	2546.5
35°	3193.8	3219.4	3267.3	3279.3	3253.6	3251.1	3216.9	3133.9	3134.8	3168.1	2770.5
37.5°	3310.1	3333.2	3389.6	3416.1	3421.2	3434.1	3420.4	3365.7	3443.5	3535.0	3067.2
40°	3407.6	3440.1	3511.9	3558.1	3611.1	3658.1	3660.7	3672.6	3829.1	3986.5	3454.6
42.5°	3483.7	3529.0	3633.3	3718.8	3840.2	3900.1	3948.0	4013.8	4277.2	4512.3	3911.2
45°	3582.9	3635.0	3765.0	3899.2	4089.1	4187.4	4254.1	4430.3	4803.9	5124.6	4379.8
47.5°	3747.0	3774.4	3906.9	4102.8	4352.4	4492.7	4622.7	4889.4	5369.2	5656.5	4769.7
50°	3958.2	3976.2	4076.2	4348.2	4671.4	4856.1	5093.0	5406.8	5955.8	6097.7	4990.3
52.5°	4191.7	4197.7	4272.9	4618.4	5028.8	5261.4	5526.5	5913.9	6433.8	6412.4	5136.6
55°	4462.8	4454.2	4518.3	4911.7	5452.1	5718.0	6026.7	6432.9	6848.5	6635.6	5220.4
57.5°	4773.2	4750.1	4812.5	5300.7	5994.2	6312.3	6626.2	6881.0	7170.0	6822.8	5260.6
60°	5098.1	5051.9	5126.3	5737.7	6633.0	6934.8	7195.6	7264.1	7508.6	6971.6	5191.3
62.5°	5357.2	5358.0	5496.6	6202.9	7289.7	7553.9	7692.5	7754.0	7800.2	6939.1	4827.0
65°	5761.6	5775.3	5996.8	6848.5	8049.9	8279.1	8374.0	8173.9	7813.0	6535.5	4279.8
67.5°	6178.9	6222.5	6627.9	7737.8	8928.1	9112.8	8990.5	8255.1	7464.1	5614.6	3245.1
70°	6314.9	6386.7	7054.6	8350.0	9454.8	9550.6	9136.7	7876.3	6239.6	3753.9	1633.2
72.5°	5786.4	5902.7	6809.1	8126.8	9118.8	9035.8	8174.7	6605.6	3966.8	1425.4	498.5
75°	4080.5	4131.8	5659.0	6741.6	7334.2	7099.0	6218.3	4258.4	1631.5	400.2	171.0
77.5°	2107.0	2082.2	3365.7	4473.0	5230.6	4986.9	4072.0	2204.4	618.2	166.7	106.0
80°	1089.4	1107.4	1456.2	2343.8	3192.9	2938.1	2171.1	1021.8	329.2	92.4	81.2
82.5°	610.5	572.9	837.1	1023.6	1493.0	1170.6	832.9	723.4	143.7	55.6	77.0
85°	111.2	116.3	459.2	553.2	518.2	329.2	268.5	483.1	41.9	30.8	53.9
87.5°	1.7	1.7	88.9	159.0	100.9	46.2	84.7	69.3	8.6	12.0	9.4
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°	1985.5	1985.5	1985.5	1985.5	1985.5	1985.5	1985.5	1985.5	1985.5	1985.5	1985.5
2.5°	1976.1	1943.6	1882.9	1823.1	1747.0	1684.5	1642.6	1599.0	1554.6	1558.0	1568.2
5°	1941.9	1885.5	1765.8	1639.2	1517.8	1408.3	1300.6	1204.0	1164.6	1128.7	1130.4
7.5°	1907.7	1828.2	1652.9	1454.5	1270.7	1084.3	949.2	838.0	779.0	734.5	721.7
10°	1892.3	1787.2	1549.4	1276.7	1015.9	812.3	638.8	548.1	478.0	455.8	461.8
12.5°	1899.2	1766.6	1456.2	1115.9	805.5	566.1	444.7	398.5	383.1	380.5	378.8
15°	1912.0	1752.1	1364.7	938.0	591.7	420.7	373.7	365.1	363.4	361.7	362.6
17.5°	1929.1	1739.3	1267.3	771.3	454.1	367.7	354.0	349.7	348.9	348.9	348.9
20°	1946.2	1724.7	1158.7	622.5	378.8	347.2	338.6	336.1	335.2	335.2	334.3
22.5°	1965.9	1711.9	1048.3	489.1	348.9	332.6	324.9	323.2	322.4	321.5	321.5
25°	1994.1	1695.7	931.2	400.2	330.1	319.0	311.3	309.5	308.7	305.3	306.1
27.5°	2031.7	1683.7	810.6	345.5	313.0	301.8	296.7	294.2	292.4	289.9	290.7
30°	2083.0	1673.4	682.4	315.5	293.3	283.9	278.8	277.1	275.3	272.8	272.8
32.5°	2171.9	1677.7	547.3	291.6	275.3	264.2	259.1	257.4	255.7	253.1	253.1
35°	2305.3	1702.5	437.8	271.1	254.0	242.8	237.7	237.7	235.2	231.7	230.9
37.5°	2523.4	1765.8	351.4	251.4	233.4	223.2	217.2	215.5	212.9	207.8	206.9
40°	2780.8	1864.1	295.9	231.7	214.6	204.4	199.2	194.1	187.3	182.1	181.3
42.5°	3104.0	1965.0	256.5	212.1	196.7	187.3	181.3	172.7	162.5	155.6	154.8
45°	3440.9	2057.4	230.0	194.1	179.6	171.9	165.0	151.4	138.5	130.0	129.1
47.5°	3692.3	2074.5	208.6	177.0	165.0	157.3	147.9	130.8	113.7	106.0	103.5
50°	3811.2	1991.5	186.4	159.9	150.5	141.9	130.0	110.3	91.5	82.1	80.4
52.5°	3853.1	1847.9	168.5	144.5	136.0	125.7	111.2	88.9	71.8	62.4	61.6
55°	3836.0	1666.6	152.2	130.0	118.9	106.9	92.4	71.0	53.0	45.3	43.6
57.5°	3746.2	1435.7	136.0	115.4	101.8	89.8	73.5	53.0	35.9	29.1	28.2
60°	3504.2	1121.0	119.7	99.2	86.4	73.5	58.1	37.6	22.2	16.2	16.2
62.5°	3095.5	832.0	104.3	82.9	72.7	59.0	41.0	23.9	12.0	8.6	7.7
65°	2586.7	614.0	87.2	70.1	60.7	46.2	29.1	14.5	6.0	2.6	1.7
67.5°	1805.1	378.8	72.7	57.3	49.6	33.3	18.0	6.0	2.6	0.0	0.0
70°	820.0	180.4	55.6	43.6	37.6	23.9	9.4	3.4	1.7	0.0	0.0
72.5°	254.8	94.9	39.3	31.6	25.7	15.4	5.1	2.6	1.7	0.0	0.0
75°	118.0	60.7	24.8	17.1	14.5	7.7	3.4	1.7	0.9	0.0	0.0
77.5°	88.1	47.0	14.5	9.4	7.7	5.1	2.6	1.7	0.9	0.0	0.0
80°	77.0	23.9	8.6	6.0	4.3	3.4	1.7	0.9	0.0	0.0	0.0
82.5°	69.3	12.0	5.1	3.4	2.6	1.7	0.9	0.9	0.0	0.0	0.0
85°	37.6	6.8	3.4	2.6	1.7	0.9	0.9	0.0	0.0	0.0	0.0
87.5°	6.8	3.4	2.6	1.7	1.7	0.9	0.9	0.9	0.0	0.0	0.0
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)