

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: P527321

Luminaire Tested: **GALN-SA2B-750-U-SL2-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P527321
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-17)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA2B-750-U-SL2-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 5000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6679 lumens
Efficiency: N/A
Efficacy: 81.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

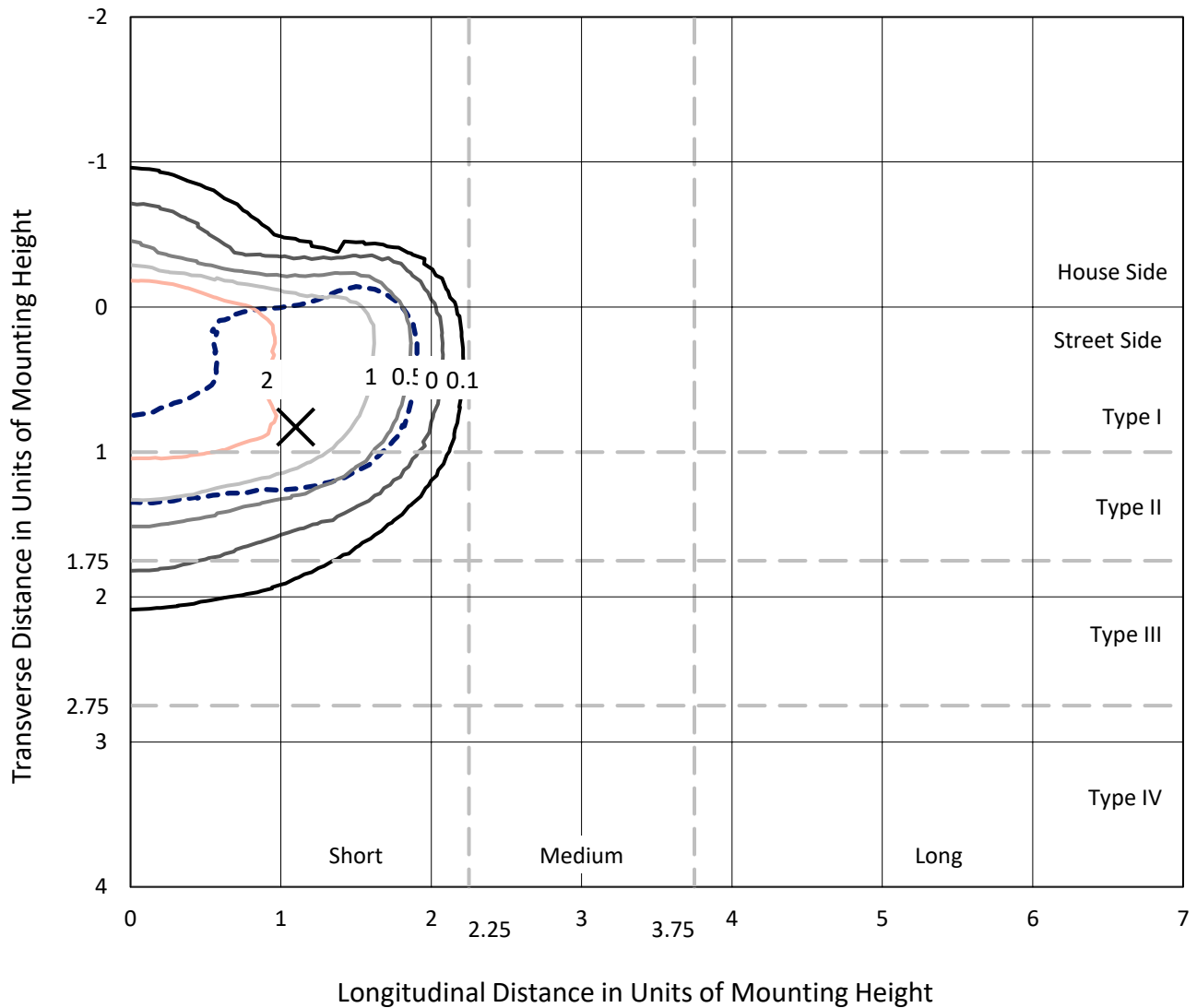
Input Watts (W): 82
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

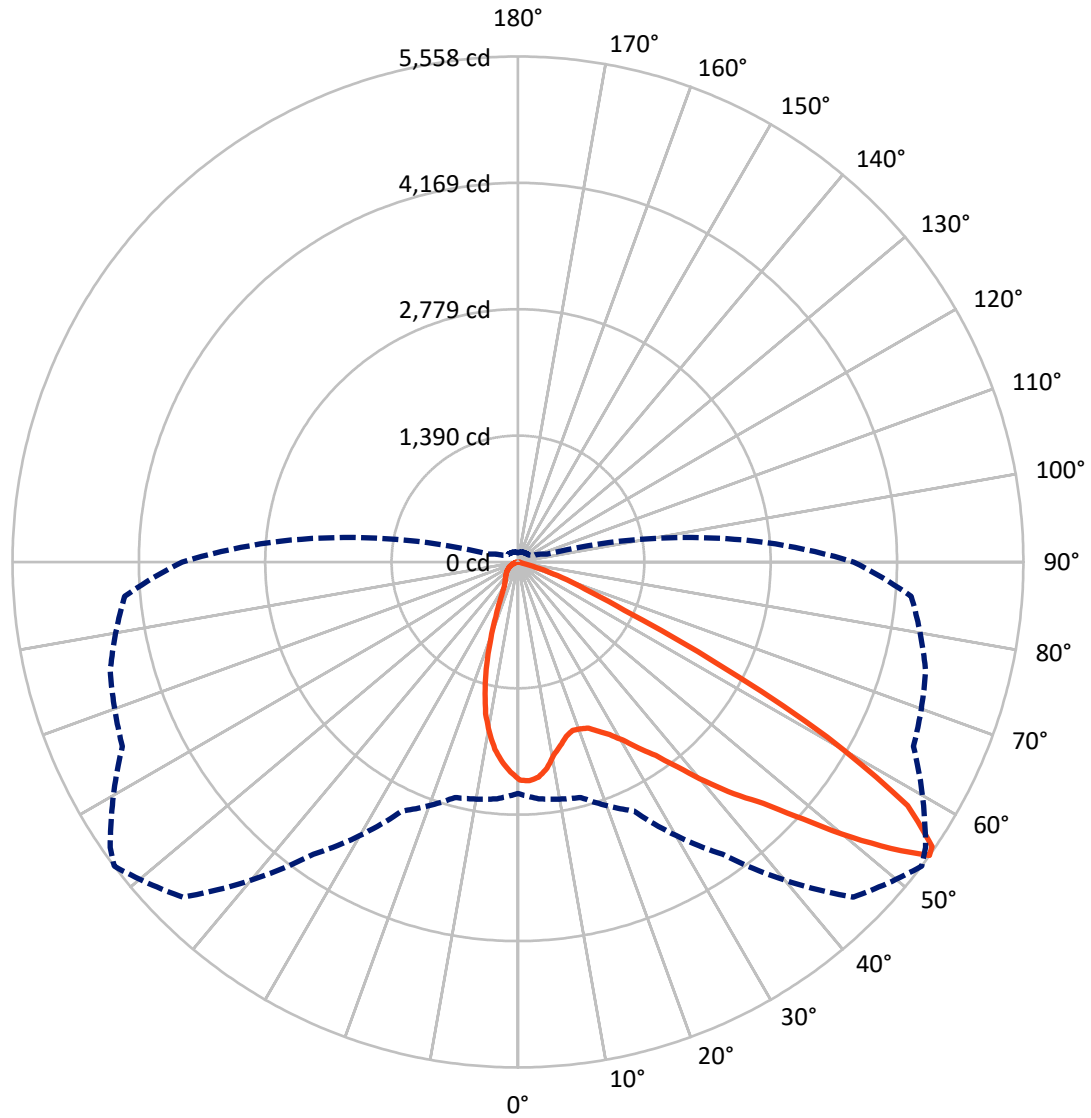
✕ Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral - - - Horizontal Cone Through 54-Deg Vertical

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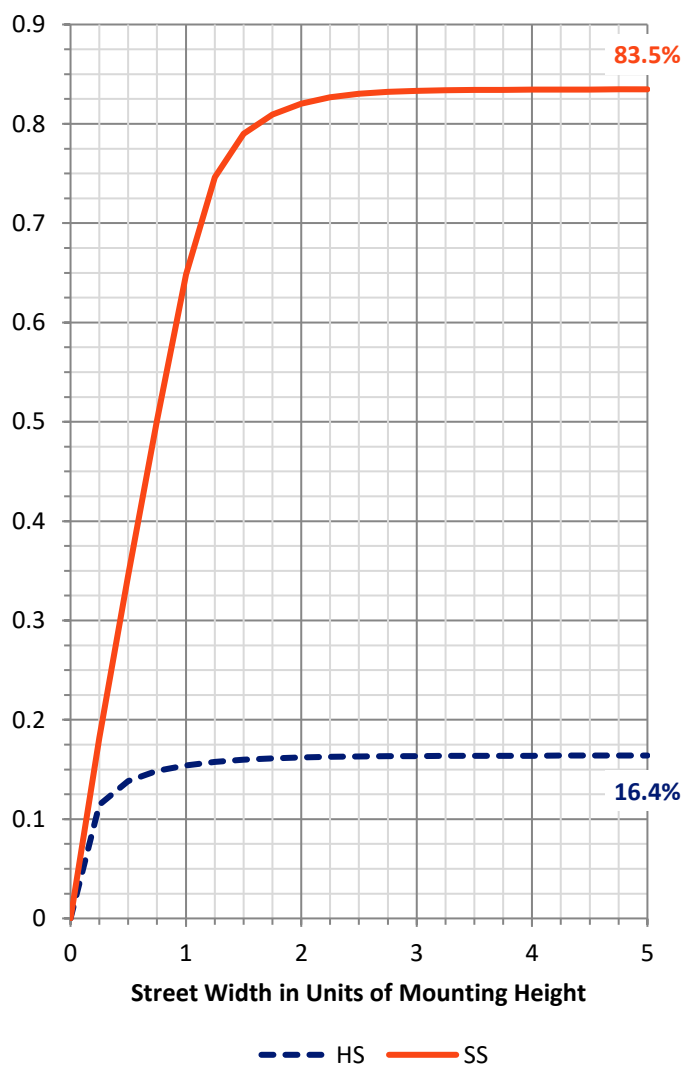
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1105.1	0.0	1105.1
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	5573.9	0.0	5573.9
	% Fixture	83.5	0.0	83.5
Total	Lumens	6679.0	0.0	6679.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	205.8	3.1
10°-20°	471.9	7.1
20°-30°	670.7	10.0
30°-40°	1035.0	15.5
40°-50°	1622.8	24.3
50°-60°	1885.1	28.2
60°-70°	712.3	10.7
70°-80°	67.7	1.0
80°-90°	7.6	0.1
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°	6679.0	100.0
0°-180°	6679.0	100.0

Coefficient of Utilization



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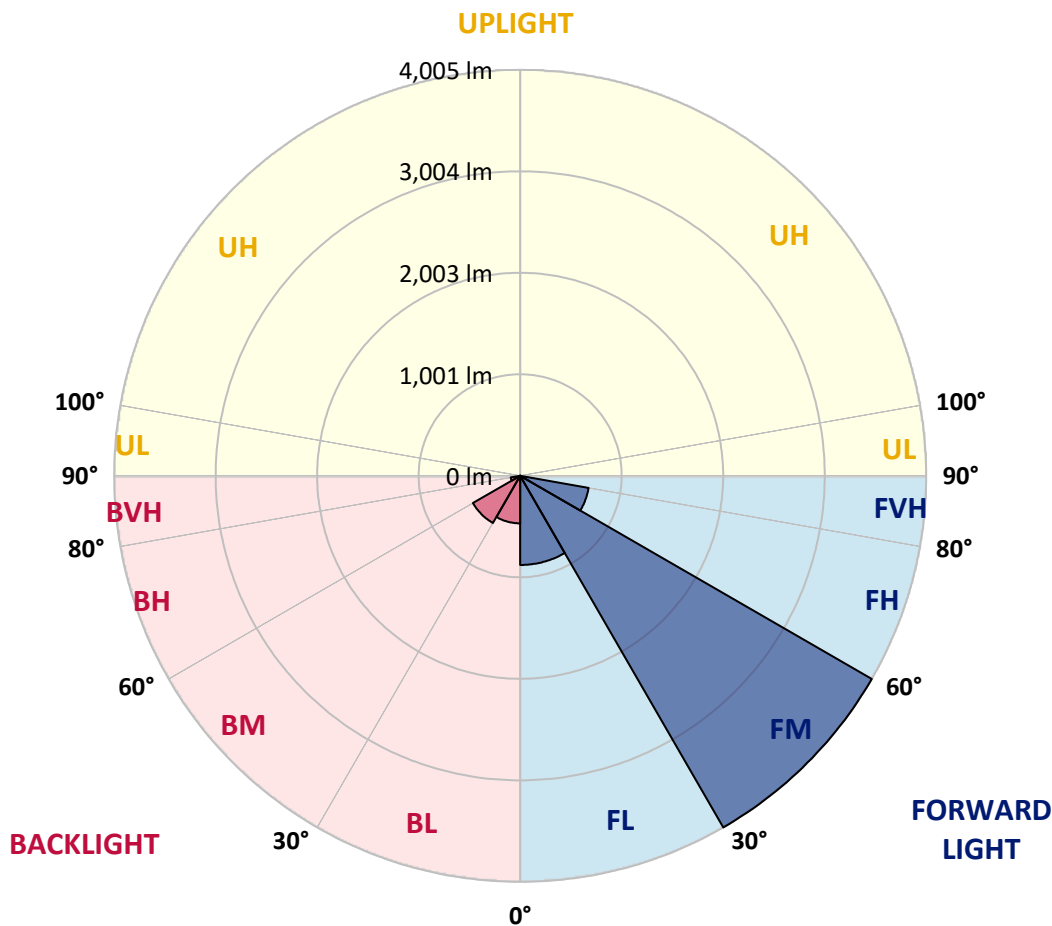
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	879.4	13.2			
FM (30°-60°)	4005.2	60.0			
FH (60°-80°)	685.4	10.3			G1/1800
FVH (80°-90°)	3.9	0.1			G0/10
BL (0°-30°)	468.9	7.0	B1/500		
BM (30°-60°)	537.8	8.1	B1/1000		
BH (60°-80°)	94.7	1.4	B0/110		G0/110
BVH (80°-90°)	3.7	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	2399.0	2399.0	2399.0	2399.0	2399.0	2399.0	2399.0	2399.0	2399.0	2399.0	2399.0
2.5°	2386.5	2365.4	2386.5	2389.0	2404.0	2417.6	2408.9	2428.8	2417.6	2405.2	2401.5
5°	2193.7	2222.3	2223.5	2268.3	2258.4	2340.5	2376.6	2366.6	2427.6	2423.9	2415.2
7.5°	2020.7	2009.5	2024.5	2076.7	2142.7	2237.2	2289.5	2288.2	2375.3	2437.6	2431.3
10°	1860.2	1859.0	1890.1	1931.1	1987.1	2086.7	2158.8	2194.9	2330.5	2425.1	2438.8
12.5°	1752.0	1747.0	1780.6	1814.2	1902.5	1979.7	2071.7	2089.2	2244.7	2381.6	2404.0
15°	1681.0	1692.2	1694.7	1759.4	1815.4	1917.4	1989.6	2025.7	2204.9	2346.7	2432.6
17.5°	1668.6	1683.5	1684.8	1738.3	1798.0	1883.8	1947.3	1995.8	2171.3	2364.1	2433.8
20°	1693.5	1684.8	1692.2	1725.8	1784.3	1866.4	1958.5	1974.7	2160.1	2372.9	2447.5
22.5°	1764.4	1761.9	1743.2	1770.6	1811.7	1897.5	1984.6	2009.5	2192.4	2417.6	2458.7
25°	1842.8	1856.5	1839.1	1835.3	1863.9	1948.6	2064.3	2096.6	2300.7	2498.5	2493.5
27.5°	1989.6	1975.9	1975.9	1958.5	1951.0	1992.1	2150.1	2203.6	2421.4	2603.0	2533.4
30°	2130.2	2145.1	2134.0	2140.2	2090.4	2086.7	2272.1	2338.0	2635.4	2762.3	2618.0
32.5°	2352.9	2333.0	2351.7	2335.5	2269.6	2202.4	2437.6	2506.0	2894.2	2945.2	2744.9
35°	2538.3	2529.6	2609.3	2606.8	2499.8	2433.8	2613.0	2715.0	3074.6	3164.2	2894.2
37.5°	2802.1	2786.0	2876.8	2920.3	2824.5	2726.2	2864.3	2982.6	3242.6	3339.7	3047.3
40°	3073.4	3114.4	3236.4	3308.6	3206.5	3075.9	3171.7	3207.8	3354.6	3454.1	3151.8
42.5°	3416.8	3476.5	3601.0	3663.2	3654.5	3512.6	3484.0	3482.8	3435.5	3421.8	3228.9
45°	3746.5	3724.1	3915.8	4051.4	4160.9	4119.8	3785.1	3747.8	3563.6	3470.3	3248.8
47.5°	3890.9	3883.4	4014.1	4255.5	4628.7	4679.8	4223.1	4078.8	3780.1	3674.4	3357.1
50°	3704.2	3742.8	3872.2	4139.7	4712.1	5101.6	4760.6	4566.5	4032.7	3923.2	3613.4
52.5°	3094.5	3120.7	3243.9	3583.5	4428.4	5350.4	5275.8	5163.8	4496.9	4315.2	4060.1
54°	2544.6	2614.2	2681.4	3022.4	3923.2	5212.3	5558.2	5472.4	4799.2	4641.2	4341.3
55°	2216.1	2257.1	2305.7	2645.4	3573.6	4978.4	5525.9	5533.3	5002.0	4743.2	4530.4
57.5°	1618.8	1647.4	1597.7	1748.2	2453.7	4042.7	5054.3	5255.9	5275.8	4896.3	4646.2
60°	1236.8	1249.3	1193.3	1216.9	1525.5	2774.8	3909.5	4152.2	4759.4	4279.1	3935.7
62.5°	959.3	961.8	960.6	1001.7	1051.4	1632.5	2445.0	2660.3	3281.2	3038.5	2672.7
65°	706.8	695.6	715.5	839.9	897.1	1026.5	1287.8	1444.6	1783.1	1505.6	1076.3
67.5°	457.9	461.6	481.5	624.6	769.0	787.6	792.6	780.2	781.4	430.5	270.0
70°	275.0	281.2	275.0	353.4	550.0	564.9	516.4	503.9	393.2	102.0	100.8
72.5°	163.0	154.3	138.1	151.8	228.9	273.7	246.4	245.1	154.3	59.7	59.7
75°	68.4	62.2	51.0	46.0	61.0	58.5	58.5	52.3	41.1	39.8	37.3
77.5°	13.7	13.7	10.0	11.2	14.9	17.4	21.2	21.2	24.9	24.9	23.6
80°	0.0	1.2	3.7	7.5	11.2	16.2	18.7	18.7	21.2	21.2	17.4
82.5°	0.0	1.2	3.7	7.5	10.0	14.9	18.7	18.7	21.2	22.4	18.7
85°	0.0	1.2	3.7	6.2	10.0	12.4	12.4	11.2	8.7	7.5	5.0
87.5°	0.0	0.0	1.2	2.5	1.2	2.5	2.5	2.5	2.5	2.5	2.5
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°	2399.0	2399.0	2399.0	2399.0	2399.0	2399.0	2399.0	2399.0	2399.0	2399.0	2399.0
2.5°	2410.2	2408.9	2379.1	2330.5	2319.3	2278.3	2273.3	2248.4	2262.1	2216.1	2211.1
5°	2390.3	2375.3	2339.3	2308.2	2217.3	2152.6	2101.6	2039.4	2003.3	2009.5	1985.9
7.5°	2418.9	2380.3	2316.9	2208.6	2097.9	1984.6	1923.7	1796.7	1750.7	1682.3	1672.3
10°	2389.0	2360.4	2262.1	2082.9	1929.9	1766.9	1623.8	1483.2	1376.2	1330.1	1320.2
12.5°	2386.5	2336.8	2172.5	1973.4	1752.0	1518.0	1310.2	1134.8	1029.0	969.3	955.6
15°	2348.0	2288.2	2071.7	1804.2	1498.1	1207.0	980.5	811.3	730.4	695.6	705.5
17.5°	2351.7	2262.1	1970.9	1625.0	1248.0	885.9	669.4	582.3	561.2	569.9	569.9
20°	2348.0	2203.6	1849.0	1418.5	955.6	614.7	491.5	460.4	474.1	501.4	495.2
22.5°	2328.1	2176.3	1737.0	1200.7	703.0	455.4	394.4	395.7	416.8	450.4	457.9
25°	2343.0	2115.3	1595.2	980.5	512.6	363.3	342.2	350.9	373.3	398.2	403.1
27.5°	2331.8	2071.7	1447.1	761.5	374.5	312.3	311.1	321.0	331.0	349.6	349.6
30°	2344.2	2031.9	1301.5	566.2	308.6	286.2	281.2	288.7	298.6	302.4	301.1
32.5°	2390.3	2002.1	1133.5	423.1	272.5	261.3	261.3	261.3	260.1	265.0	266.3
35°	2491.1	2007.0	985.5	327.2	248.9	240.1	236.4	231.4	228.9	231.4	232.7
37.5°	2600.6	2004.5	832.4	278.7	231.4	224.0	215.3	207.8	206.6	209.0	205.3
40°	2649.1	2028.2	690.6	250.1	215.3	206.6	192.9	186.6	187.9	190.4	187.9
42.5°	2715.0	2035.7	598.5	227.7	200.3	186.6	177.9	170.5	169.2	173.0	171.7
45°	2713.8	1993.3	501.4	215.3	186.6	171.7	160.5	154.3	154.3	156.8	158.0
47.5°	2793.4	1987.1	430.5	204.1	176.7	161.8	148.1	143.1	141.8	141.8	139.4
50°	2978.8	2074.2	375.8	191.6	164.2	150.6	139.4	133.1	128.2	125.7	124.4
52.5°	3340.9	2345.5	333.5	176.7	150.6	139.4	129.4	124.4	118.2	112.0	110.7
54°	3691.8	2625.4	331.0	164.2	139.4	131.9	123.2	120.7	113.2	104.5	102.0
55°	3849.8	2788.4	339.7	154.3	131.9	126.9	119.5	117.0	109.5	99.5	98.3
57.5°	3980.5	2851.9	334.7	128.2	119.5	118.2	112.0	108.3	99.5	85.9	83.4
60°	3204.0	2156.3	240.1	113.2	109.5	107.0	102.0	99.5	88.3	73.4	72.2
62.5°	2024.5	1240.6	153.0	99.5	95.8	92.1	85.9	83.4	73.4	58.5	54.7
65°	862.3	513.9	103.3	88.3	82.1	75.9	70.9	67.2	58.5	43.6	42.3
67.5°	224.0	182.9	85.9	77.1	68.4	59.7	56.0	49.8	39.8	29.9	28.6
70°	100.8	92.1	72.2	64.7	54.7	46.0	41.1	34.8	26.1	19.9	18.7
72.5°	59.7	58.5	54.7	48.5	41.1	34.8	29.9	23.6	17.4	11.2	11.2
75°	37.3	36.1	37.3	33.6	28.6	26.1	22.4	16.2	10.0	5.0	5.0
77.5°	22.4	22.4	22.4	21.2	19.9	19.9	16.2	10.0	5.0	1.2	1.2
80°	17.4	17.4	18.7	17.4	17.4	17.4	13.7	7.5	2.5	0.0	0.0
82.5°	17.4	18.7	21.2	19.9	17.4	14.9	12.4	7.5	2.5	0.0	0.0
85°	5.0	3.7	6.2	8.7	12.4	11.2	8.7	6.2	2.5	0.0	0.0
87.5°	2.5	2.5	2.5	2.5	1.2	1.2	1.2	1.2	1.2	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)