

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: INVUE

Report Number: P674500

Luminaire Tested: **CCP-SA-2D-850-U-AFL-HSS**

Issue Date: 04/16/2023



Test Information

Test Method: LM-79-08
Report Number: P674500
Test Lab: INNOVATION CENTER(G2)
Issue Date: 04/16/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCP-SA-2D-850-U-AFL-HSS
Description: INVUE CLEAR CURVE POLE MOUNT Light Square Luminaire @800mA w/ AFL distribution lens and House Side Shield
Light Source: (32) 5000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

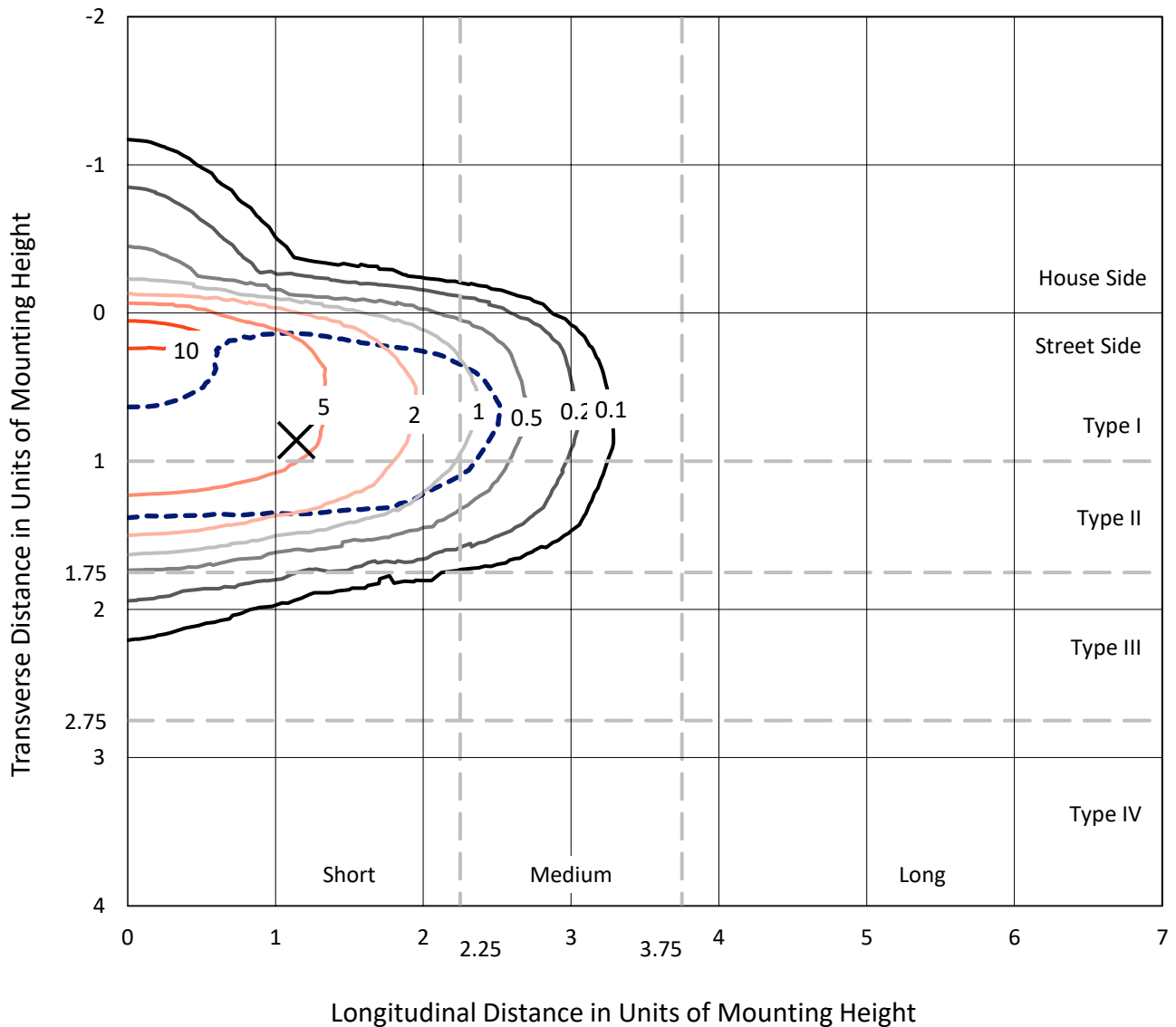
Lumens per Lamp: N/A
Luminaire Lumens: 8070.3 lumens
Efficiency: N/A
Efficacy: 99.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

Input Watts (W): 80.8
Input Voltage (V): 120
Input Current (A_{in}): 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: 25 FT

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Iso-Footcandle Lines of Horizontal Illumination

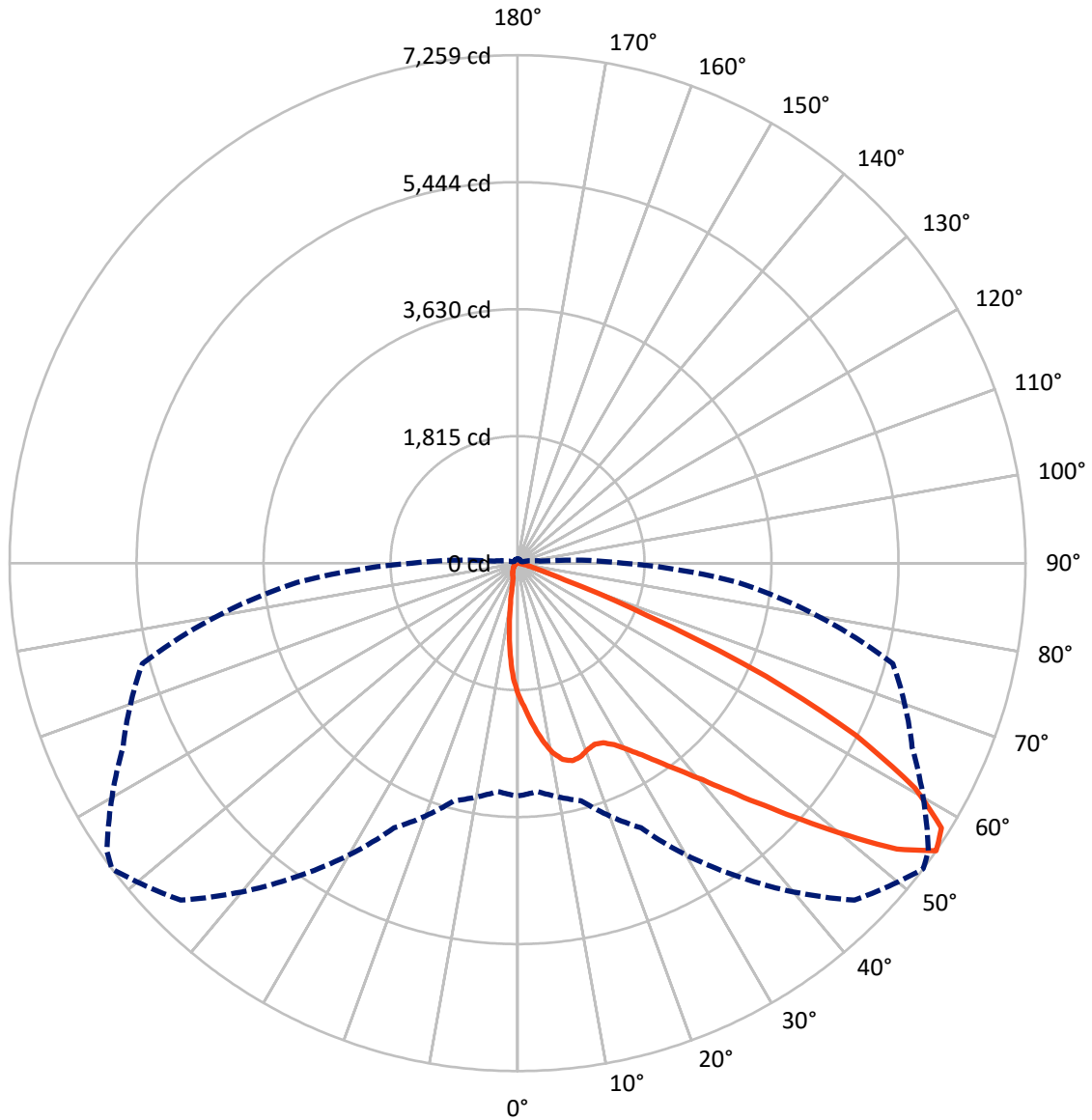
✕ Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 12.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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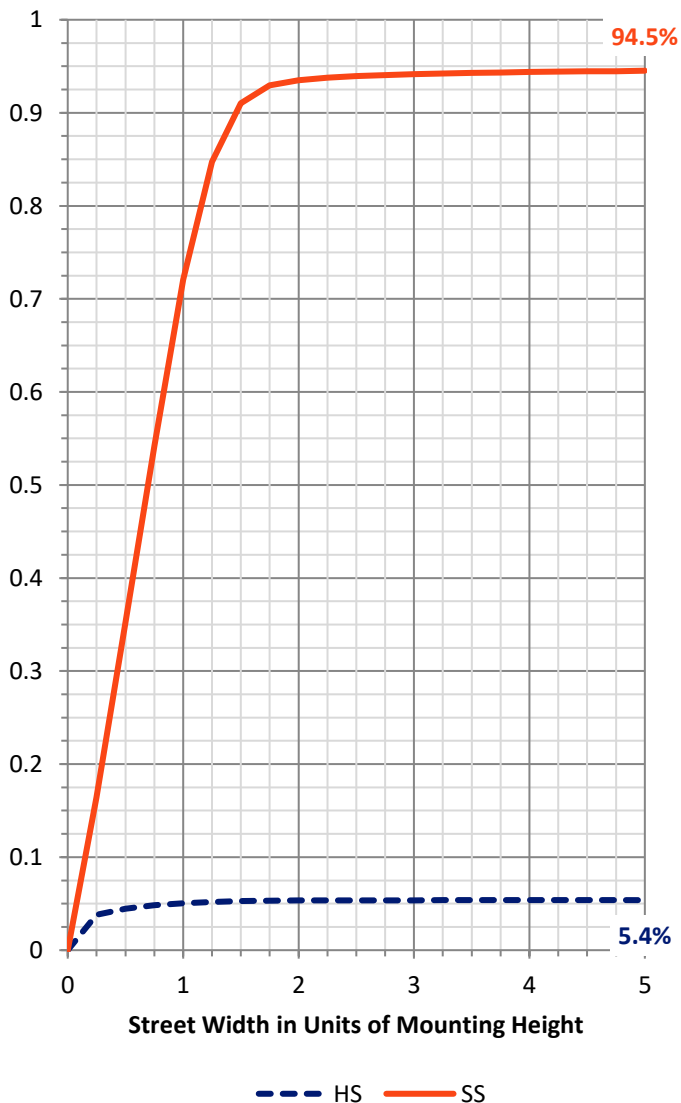
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	436.2	0.0	436.2
	% Fixture	5.4	0.0	5.4
Street Side	Lumens	7634.0	0.0	7634.0
	% Fixture	94.6	0.0	94.6
Total	Lumens	8070.3	0.0	8070.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	168.9	2.1
10°-20°	441.2	5.5
20°-30°	738.5	9.2
30°-40°	1208.1	15.0
40°-50°	1942.0	24.1
50°-60°	2192.6	27.2
60°-70°	1169.6	14.5
70°-80°	192.2	2.4
80°-90°	17.2	0.2
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°	8070.3	100.0
0°-180°	8070.3	100.0



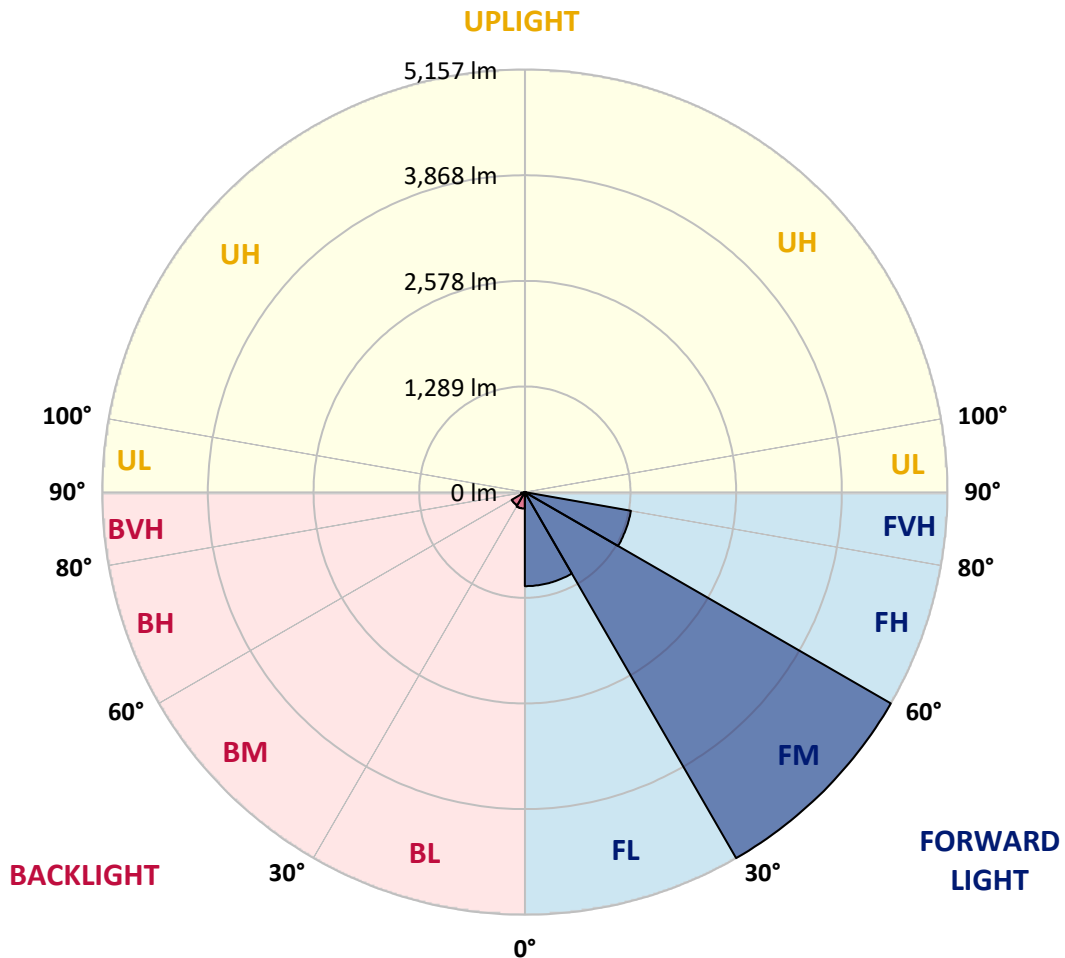
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1147.2	14.2			
FM (30°-60°)	5157.0	63.9			
FH (60°-80°)	1314.0	16.3			G1/1800
FVH (80°-90°)	15.8	0.2			G1/100
BL (0°-30°)	201.3	2.5	B1/500		
BM (30°-60°)	185.8	2.3	B0/220		
BH (60°-80°)	47.7	0.6	B0/110		G0/110
BVH (80°-90°)	1.4	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-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	1888.6	1888.6	1888.6	1888.6	1888.6	1888.6	1888.6	1888.6	1888.6	1888.6	1888.6
2.5°	2264.8	2251.4	2259.1	2238.6	2201.2	2154.5	2084.5	2088.0	2032.9	1984.8	1918.3
5°	2638.9	2624.7	2620.5	2568.1	2515.8	2431.7	2327.7	2310.8	2209.6	2087.3	1948.0
7.5°	2836.1	2824.1	2833.3	2814.2	2762.6	2686.2	2554.7	2542.0	2385.7	2200.5	1995.4
10°	2745.6	2741.4	2780.3	2825.5	2867.2	2858.0	2752.7	2732.9	2557.5	2324.9	2044.2
12.5°	2502.4	2515.8	2565.3	2648.7	2777.4	2898.4	2881.4	2884.9	2732.9	2460.0	2097.9
15°	2359.6	2375.8	2404.1	2447.2	2605.6	2820.6	2930.2	2965.5	2901.2	2610.6	2161.6
17.5°	2347.5	2361.0	2365.2	2381.5	2474.1	2695.4	2910.4	2977.5	3051.1	2752.7	2233.0
20°	2440.2	2445.8	2442.3	2430.3	2463.5	2627.5	2848.1	2944.3	3174.8	2904.0	2295.9
22.5°	2614.8	2606.3	2595.7	2551.2	2549.1	2646.6	2814.2	2914.6	3248.4	3029.2	2337.6
25°	2831.2	2813.5	2798.7	2735.7	2706.0	2746.3	2844.6	2925.2	3314.8	3150.8	2367.3
27.5°	3067.3	3073.0	3036.2	2951.4	2904.7	2896.2	2938.7	2998.8	3379.2	3259.7	2383.6
30°	3319.8	3322.6	3274.5	3186.8	3144.4	3090.0	3087.1	3123.2	3448.5	3384.8	2399.1
32.5°	3607.6	3615.3	3536.9	3445.6	3371.4	3300.7	3266.0	3296.4	3572.9	3548.2	2431.0
35°	4023.3	3989.4	3883.3	3745.4	3640.1	3547.5	3494.4	3514.2	3738.4	3744.0	2494.6
37.5°	4451.8	4448.3	4330.9	4132.2	3959.7	3844.4	3753.9	3786.5	3971.0	4006.4	2596.4
40°	4851.3	4860.5	4758.7	4585.5	4363.4	4165.5	4068.6	4090.5	4280.0	4324.5	2720.2
42.5°	5112.2	5107.3	5115.1	5065.6	4842.8	4609.5	4463.8	4475.9	4639.2	4662.5	2875.0
45°	5232.4	5213.4	5279.8	5436.8	5348.4	5103.1	4936.9	4922.0	5011.8	5005.5	3015.7
47.5°	5128.5	5093.2	5245.9	5624.2	5795.3	5721.0	5483.5	5456.6	5380.2	5329.3	3162.1
50°	4611.6	4596.1	4922.7	5535.1	6076.0	6292.4	6117.7	6018.0	5709.0	5568.3	3239.2
52.5°	4120.2	4077.1	4297.7	5080.4	5950.8	6752.0	6788.0	6610.6	5982.0	5636.9	3213.0
55°	3328.3	3275.2	3515.6	4173.9	5455.2	6810.7	7259.0	7166.3	6221.0	5552.1	3160.0
57.5°	2021.6	1969.2	2322.8	2989.6	4362.7	6322.8	7143.0	7237.0	6404.8	5458.7	3125.3
60°	849.9	816.7	955.3	1426.9	2785.9	5196.4	6527.8	6762.6	6439.4	5330.7	3139.5
62.5°	441.9	427.1	434.9	571.3	1126.4	3421.6	5433.3	5842.0	6090.1	5274.2	3153.6
65°	331.6	320.3	295.6	313.9	437.7	1479.2	3904.5	4451.8	5332.9	5130.6	3058.2
67.5°	272.2	261.6	243.9	238.3	258.1	513.3	1993.3	2704.6	4178.9	4519.0	2715.9
70°	217.1	213.5	207.9	197.3	193.7	248.9	714.9	1102.3	2763.3	3186.8	1968.5
72.5°	181.0	181.7	175.4	166.2	153.4	160.5	285.0	376.9	1337.1	1528.0	824.5
75°	151.3	151.3	153.4	140.7	128.0	110.3	158.4	183.8	429.2	352.8	176.1
77.5°	118.8	120.2	129.4	118.8	102.5	69.3	86.3	98.3	127.3	101.8	64.3
80°	94.7	93.3	89.8	106.8	91.9	48.8	41.0	45.3	59.4	48.8	31.8
82.5°	66.5	65.8	62.9	72.1	71.4	36.1	26.9	27.6	36.1	31.1	19.8
85°	16.3	19.1	40.3	33.9	29.7	21.2	16.3	17.7	23.3	20.5	10.6
87.5°	7.1	7.1	18.4	21.9	14.1	9.2	7.1	7.8	12.0	12.0	6.4
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°	1888.6	1888.6	1888.6	1888.6	1888.6	1888.6	1888.6	1888.6	1888.6	1888.6	1888.6
2.5°	1895.0	1849.0	1791.1	1729.5	1666.6	1590.9	1542.9	1503.3	1472.2	1448.1	1439.6
5°	1902.1	1813.7	1682.2	1518.8	1352.7	1197.1	1076.9	987.8	914.3	874.0	856.3
7.5°	1901.4	1784.0	1546.4	1272.8	1002.7	778.5	619.4	521.1	455.4	428.5	412.2
10°	1900.7	1745.1	1391.5	999.8	670.3	451.1	332.3	277.2	253.1	243.9	242.5
12.5°	1921.2	1700.5	1218.3	736.1	420.7	280.7	231.2	218.5	212.8	210.0	209.3
15°	1932.5	1659.5	1035.9	519.7	283.5	222.0	206.5	200.8	198.7	197.3	196.6
17.5°	1944.5	1595.9	862.6	376.2	227.0	201.5	192.3	188.8	187.4	187.4	187.4
20°	1946.6	1527.3	690.8	277.2	201.5	188.1	178.9	175.4	173.2	171.8	171.8
22.5°	1931.1	1446.0	543.0	224.9	186.7	175.4	165.5	159.8	156.3	155.6	155.6
25°	1892.2	1330.7	416.5	197.3	174.7	162.6	150.6	144.2	141.4	141.4	141.4
27.5°	1836.3	1195.0	321.7	175.4	159.1	147.1	136.5	130.8	130.1	129.4	130.1
30°	1772.7	1064.2	246.1	155.6	140.7	130.8	122.3	119.5	120.9	120.9	121.6
32.5°	1709.0	933.4	192.3	140.0	124.4	116.0	111.7	111.7	113.8	113.8	113.8
35°	1654.6	805.4	161.2	127.3	113.1	106.1	103.9	106.1	107.5	108.2	108.2
37.5°	1624.2	695.1	142.1	116.0	103.9	98.3	97.6	99.7	102.5	104.6	105.4
40°	1612.9	610.2	130.8	107.5	95.5	91.9	91.2	94.0	99.0	102.5	103.2
42.5°	1613.6	535.3	120.9	99.0	89.8	84.9	84.9	89.1	94.0	97.6	97.6
45°	1618.5	470.9	111.0	90.5	84.9	76.4	77.1	82.7	86.3	89.8	89.8
47.5°	1622.8	419.3	100.4	81.3	73.5	69.3	70.7	75.0	79.9	85.6	85.6
50°	1598.0	382.5	89.8	71.4	64.3	62.9	65.8	69.3	76.4	82.0	82.7
52.5°	1538.6	349.3	80.6	63.6	58.0	58.7	62.2	64.3	70.0	70.7	71.4
55°	1512.5	332.3	73.5	58.0	53.0	55.2	57.3	58.0	56.6	53.0	53.0
57.5°	1506.8	321.0	66.5	52.3	48.8	51.6	50.9	46.7	42.4	38.2	37.5
60°	1512.5	305.5	60.8	45.3	44.5	45.3	43.1	35.4	29.7	26.9	25.5
62.5°	1479.9	282.8	55.9	38.9	38.9	38.2	32.5	24.0	19.1	17.0	16.3
65°	1372.5	238.3	50.9	32.5	31.8	30.4	21.9	16.3	12.7	10.6	9.9
67.5°	1161.0	184.5	46.0	26.9	25.5	21.2	14.1	10.6	7.1	6.4	5.7
70°	791.9	114.5	38.9	21.2	19.1	13.4	8.5	6.4	4.2	3.5	2.8
72.5°	287.1	66.5	32.5	16.3	12.7	8.5	4.9	2.8	2.1	2.1	1.4
75°	67.9	46.7	24.7	12.0	8.5	4.9	2.8	2.1	1.4	1.4	0.7
77.5°	31.1	36.1	16.3	7.1	5.7	3.5	2.1	1.4	0.7	0.7	0.0
80°	17.7	25.5	7.8	4.9	4.2	2.8	1.4	0.7	0.7	0.0	0.0
82.5°	9.2	14.1	5.7	4.2	3.5	2.1	1.4	0.0	0.0	0.0	0.0
85°	6.4	7.1	4.2	3.5	2.8	2.1	1.4	0.0	0.0	0.0	0.0
87.5°	4.9	4.9	4.2	3.5	2.8	2.1	0.7	0.0	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)