

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: P674412

Luminaire Tested: **CCP-SA-2D-735-U-AFL-HSS**

Issue Date: 04/16/2023



Test Information

Test Method: LM-79-08
Report Number: P674412
Test Lab: INNOVATION CENTER(G2)
Issue Date: 04/16/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCP-SA-2D-735-U-AFL-HSS
Description: INVUE CLEAR CURVE POLE MOUNT Light Square Luminaire @800mA w/ AFL distribution lens and House Side Shield
Light Source: (32) 3500K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

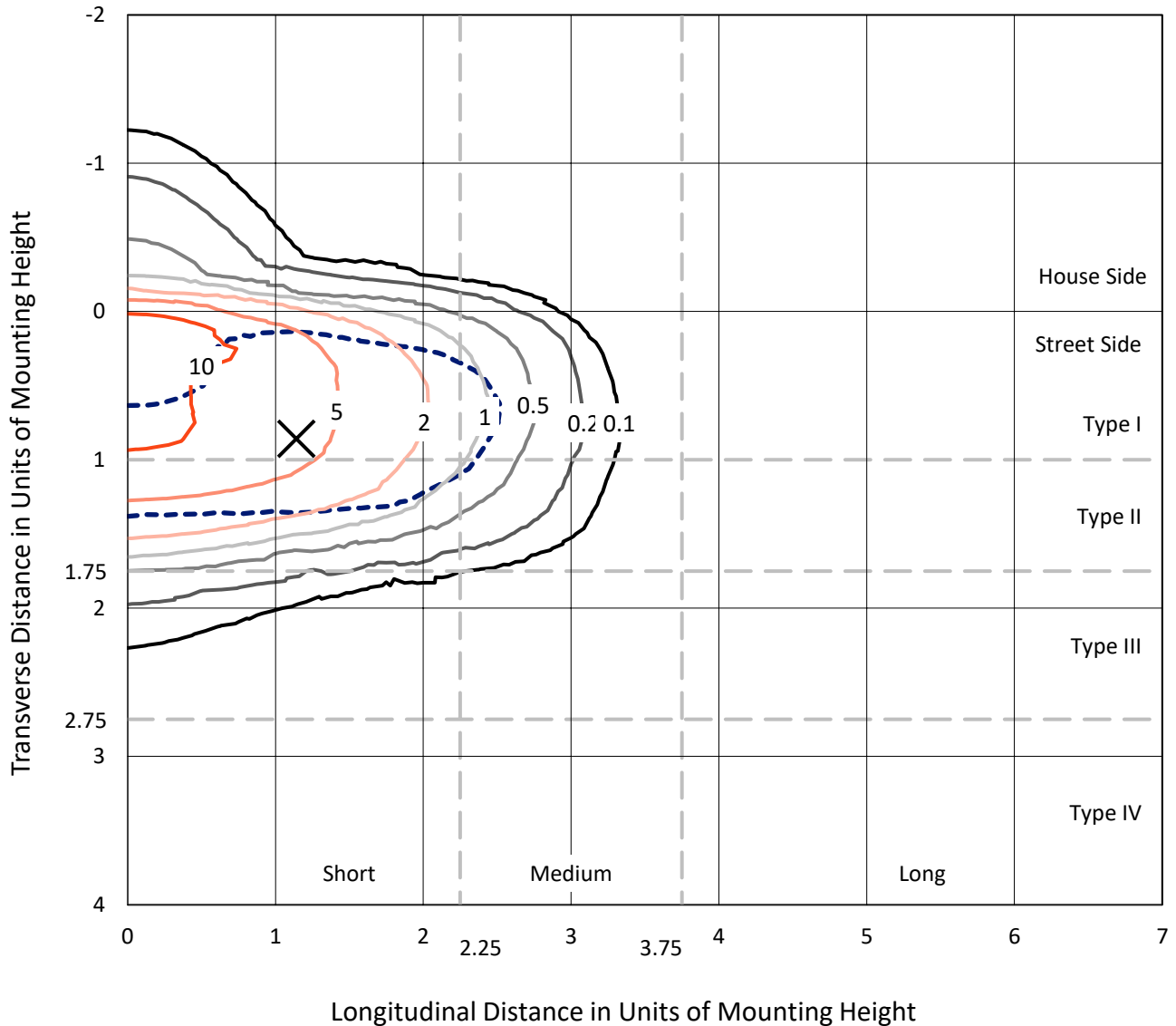
Lumens per Lamp: N/A
Luminaire Lumens: 9121.8 lumens
Efficiency: N/A
Efficacy: 112.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

Input Watts (W): 80.8
Input Voltage (V): 120
Input Current (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: 25 FT

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Iso-Footcandle Lines of Horizontal Illumination

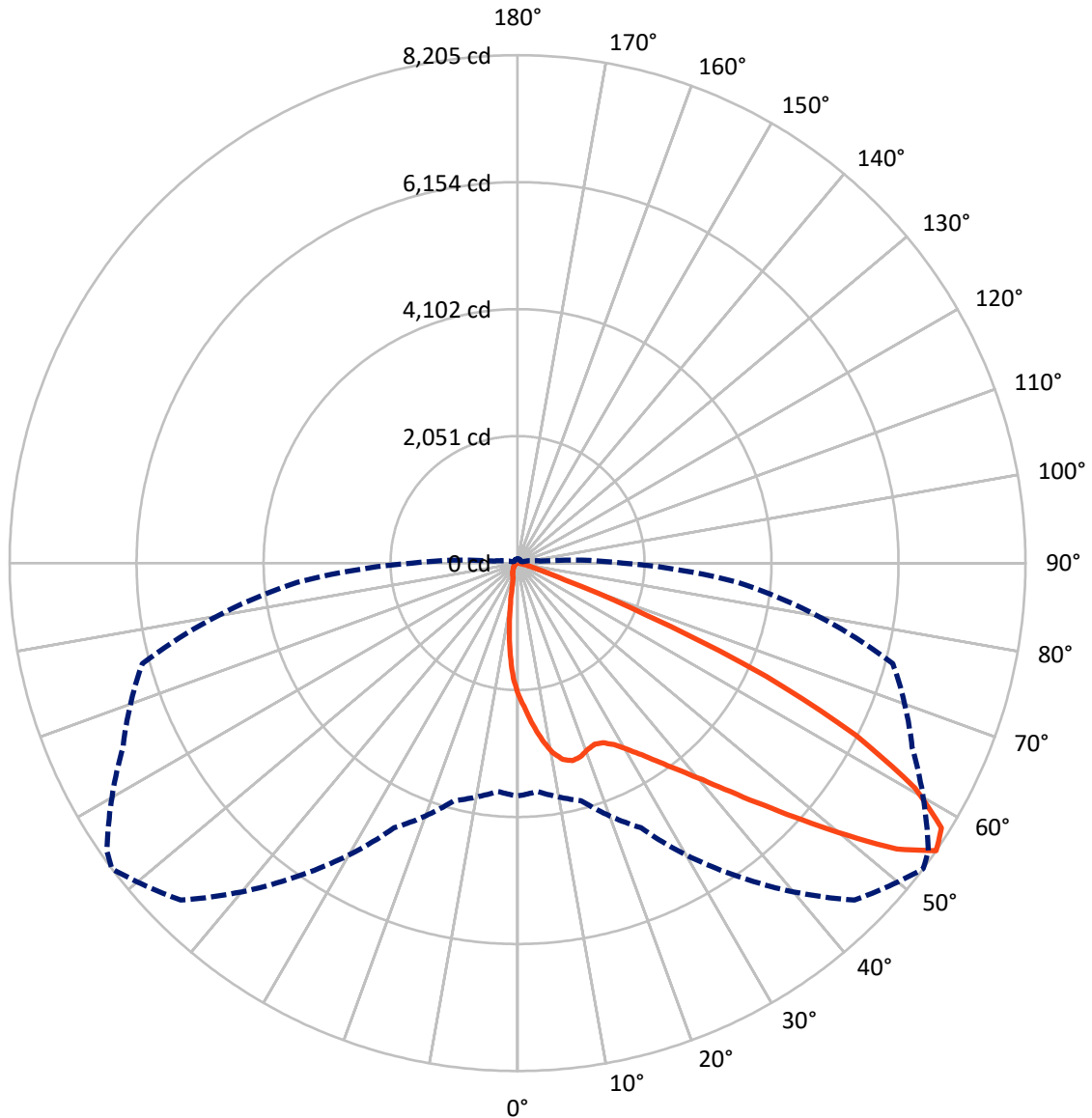
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 13.8 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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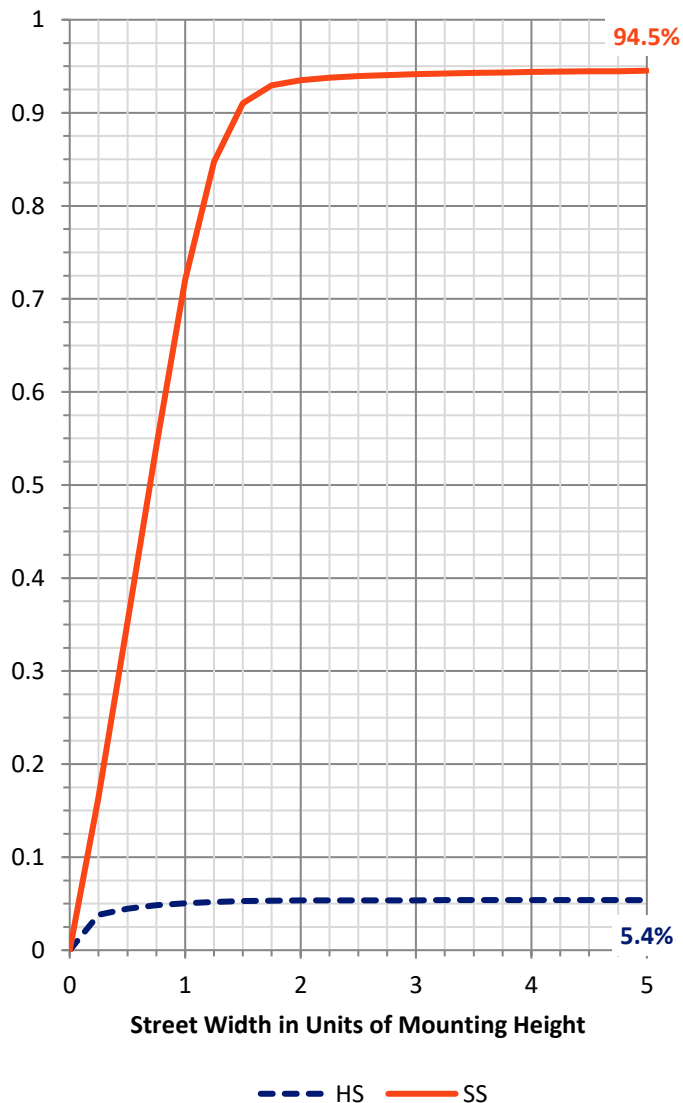
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	493.1	0.0	493.1
	% Fixture	5.4	0.0	5.4
Street Side	Lumens	8628.8	0.0	8628.8
	% Fixture	94.6	0.0	94.6
Total	Lumens	9121.8	0.0	9121.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	190.9	2.1
10°-20°	498.7	5.5
20°-30°	834.7	9.2
30°-40°	1365.6	15.0
40°-50°	2195.1	24.1
50°-60°	2478.3	27.2
60°-70°	1322.0	14.5
70°-80°	217.2	2.4
80°-90°	19.4	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°	9121.8	100.0
0°-180°	9121.8	100.0



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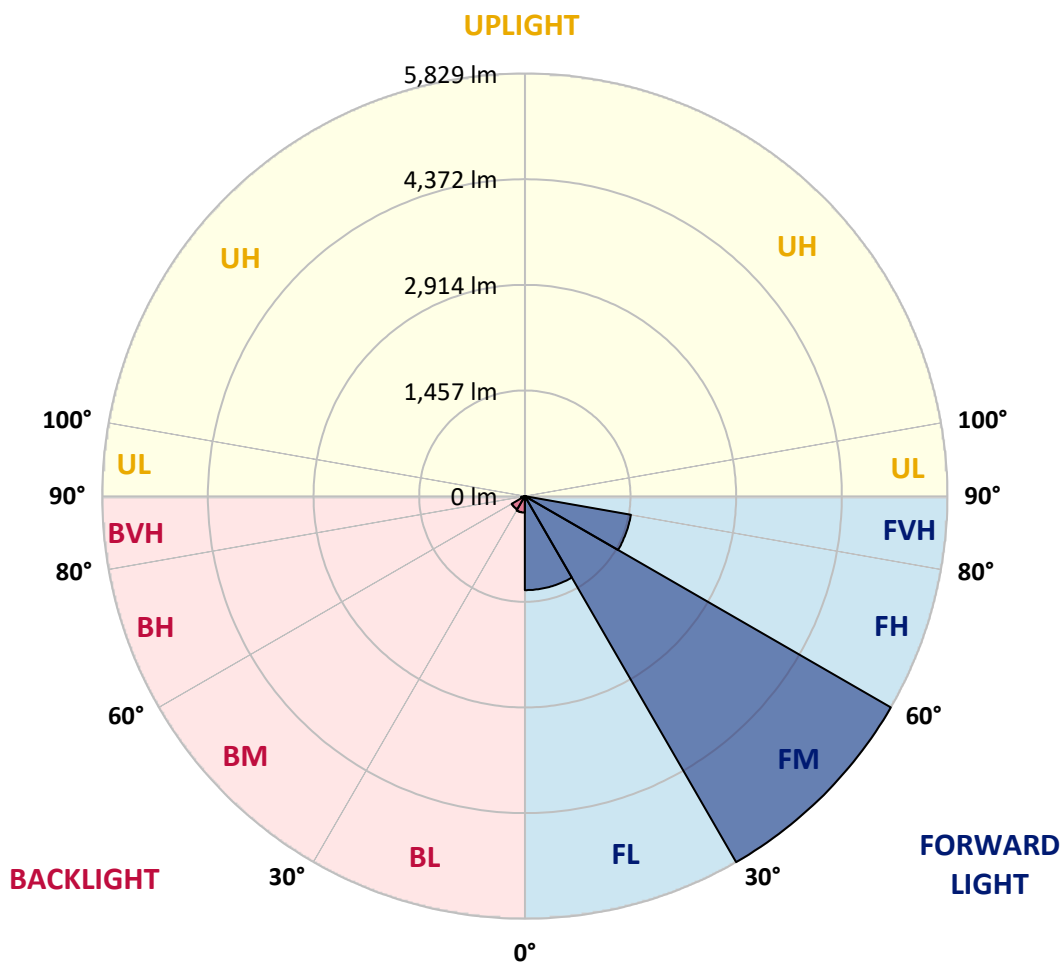
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1296.7	14.2			
FM (30°-60°)	5828.9	63.9			
FH (60°-80°)	1485.3	16.3			G1/1800
FVH (80°-90°)	17.9	0.2			G1/100
BL (0°-30°)	227.5	2.5	B1/500		
BM (30°-60°)	210.1	2.3	B0/220		
BH (60°-80°)	53.9	0.6	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-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	2134.7	2134.7	2134.7	2134.7	2134.7	2134.7	2134.7	2134.7	2134.7	2134.7	2134.7
2.5°	2559.9	2544.7	2553.5	2530.3	2488.0	2435.2	2356.1	2360.1	2297.8	2243.4	2168.3
5°	2982.7	2966.7	2961.9	2902.8	2843.6	2748.5	2631.0	2611.9	2497.6	2359.3	2201.9
7.5°	3205.7	3192.1	3202.5	3180.9	3122.6	3036.2	2887.6	2873.2	2696.6	2487.2	2255.4
10°	3103.4	3098.6	3142.5	3193.7	3240.8	3230.5	3111.4	3089.0	2890.8	2627.8	2310.5
12.5°	2828.4	2843.6	2899.6	2993.9	3139.3	3276.0	3256.8	3260.8	3089.0	2780.5	2371.3
15°	2667.0	2685.4	2717.4	2766.1	2945.1	3188.1	3312.0	3351.9	3279.2	2950.7	2443.2
17.5°	2653.4	2668.6	2673.4	2691.8	2796.5	3046.6	3289.6	3365.5	3448.6	3111.4	2523.9
20°	2758.1	2764.5	2760.5	2746.9	2784.5	2969.9	3219.3	3328.0	3588.5	3282.4	2595.1
22.5°	2955.5	2945.9	2933.9	2883.6	2881.2	2991.5	3180.9	3294.4	3671.6	3423.9	2642.2
25°	3200.1	3180.1	3163.3	3092.2	3058.6	3104.2	3215.3	3306.4	3746.7	3561.3	2675.8
27.5°	3467.0	3473.4	3431.9	3335.9	3283.2	3273.6	3321.6	3389.5	3819.5	3684.4	2694.2
30°	3752.3	3755.5	3701.2	3602.1	3554.1	3492.6	3489.4	3530.2	3897.8	3825.9	2711.8
32.5°	4077.6	4086.4	3997.7	3894.6	3810.7	3730.8	3691.6	3726.0	4038.5	4010.5	2747.7
35°	4547.6	4509.2	4389.3	4233.5	4114.4	4009.7	3949.8	3972.1	4225.5	4231.9	2819.7
37.5°	5031.9	5027.9	4895.2	4670.6	4475.6	4345.4	4243.1	4279.8	4488.4	4528.4	2934.7
40°	5483.5	5493.8	5378.8	5182.9	4932.0	4708.2	4598.7	4623.5	4837.7	4888.0	3074.6
42.5°	5778.4	5772.8	5781.6	5725.6	5473.9	5210.1	5045.5	5059.1	5243.7	5270.1	3249.6
45°	5914.2	5892.7	5967.8	6145.2	6045.3	5768.0	5580.2	5563.4	5664.9	5657.7	3408.7
47.5°	5796.8	5756.8	5929.4	6357.0	6550.4	6466.5	6198.0	6167.6	6081.3	6023.7	3574.1
50°	5212.5	5194.9	5564.2	6256.3	6867.7	7112.3	6914.9	6802.2	6452.9	6293.9	3661.2
52.5°	4657.1	4608.3	4857.7	5742.4	6726.2	7631.8	7672.5	7471.9	6761.4	6371.4	3631.7
55°	3761.9	3702.0	3973.7	4717.8	6166.0	7698.1	8204.8	8100.1	7031.5	6275.5	3571.7
57.5°	2285.0	2225.8	2625.4	3379.1	4931.2	7146.6	8073.7	8180.0	7239.3	6170.0	3532.6
60°	960.7	923.1	1079.7	1612.8	3148.9	5873.5	7378.4	7643.8	7278.5	6025.3	3548.5
62.5°	499.5	482.7	491.5	645.8	1273.2	3867.4	6141.2	6603.2	6883.7	5961.4	3564.5
65°	374.8	362.0	334.1	354.9	494.7	1672.0	4413.3	5031.9	6027.7	5799.1	3456.6
67.5°	307.7	295.7	275.7	269.3	291.7	580.2	2253.0	3057.0	4723.4	5107.8	3069.8
70°	245.4	241.4	235.0	223.0	219.0	281.3	808.0	1246.0	3123.4	3602.1	2225.0
72.5°	204.6	205.4	198.2	187.8	173.4	181.4	322.1	426.0	1511.3	1727.1	931.9
75°	171.0	171.0	173.4	159.0	144.7	124.7	179.0	207.8	485.1	398.8	199.0
77.5°	134.3	135.9	146.3	134.3	115.9	78.3	97.5	111.1	143.9	115.1	72.7
80°	107.1	105.5	101.5	120.7	103.9	55.1	46.4	51.2	67.1	55.1	36.0
82.5°	75.1	74.3	71.1	81.5	80.7	40.8	30.4	31.2	40.8	35.2	22.4
85°	18.4	21.6	45.6	38.4	33.6	24.0	18.4	20.0	26.4	23.2	12.0
87.5°	8.0	8.0	20.8	24.8	16.0	10.4	8.0	8.8	13.6	13.6	7.2
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°	2134.7	2134.7	2134.7	2134.7	2134.7	2134.7	2134.7	2134.7	2134.7	2134.7	2134.7
2.5°	2141.9	2090.0	2024.4	1954.9	1883.8	1798.2	1743.9	1699.1	1664.0	1636.8	1627.2
5°	2149.9	2050.0	1901.3	1716.7	1528.9	1353.1	1217.2	1116.5	1033.4	987.8	967.9
7.5°	2149.1	2016.4	1747.9	1438.6	1133.3	879.9	700.1	589.0	514.7	484.3	465.9
10°	2148.3	1972.5	1572.9	1130.1	757.7	509.9	375.6	313.3	286.1	275.7	274.1
12.5°	2171.5	1922.1	1377.1	832.0	475.5	317.3	261.3	247.0	240.6	237.4	236.6
15°	2184.3	1875.8	1170.9	587.4	320.5	251.0	233.4	227.0	224.6	223.0	222.2
17.5°	2197.9	1803.8	975.0	425.2	256.6	227.8	217.4	213.4	211.8	211.8	211.8
20°	2200.3	1726.3	780.8	313.3	227.8	212.6	202.2	198.2	195.8	194.2	194.2
22.5°	2182.7	1634.4	613.8	254.2	211.0	198.2	187.0	180.6	176.6	175.8	175.8
25°	2138.7	1504.1	470.7	223.0	197.4	183.8	170.2	163.0	159.8	159.8	159.8
27.5°	2075.6	1350.7	363.6	198.2	179.8	166.2	154.2	147.9	147.1	146.3	147.1
30°	2003.6	1202.8	278.1	175.8	159.0	147.9	138.3	135.1	136.7	136.7	137.5
32.5°	1931.7	1055.0	217.4	158.2	140.7	131.1	126.3	126.3	128.7	128.7	128.7
35°	1870.2	910.3	182.2	143.9	127.9	119.9	117.5	119.9	121.5	122.3	122.3
37.5°	1835.8	785.6	160.6	131.1	117.5	111.1	110.3	112.7	115.9	118.3	119.1
40°	1823.0	689.7	147.9	121.5	107.9	103.9	103.1	106.3	111.9	115.9	116.7
42.5°	1823.8	605.0	136.7	111.9	101.5	95.9	95.9	100.7	106.3	110.3	110.3
45°	1829.4	532.3	125.5	102.3	95.9	86.3	87.1	93.5	97.5	101.5	101.5
47.5°	1834.2	473.9	113.5	91.9	83.1	78.3	79.9	84.7	90.3	96.7	96.7
50°	1806.2	432.4	101.5	80.7	72.7	71.1	74.3	78.3	86.3	92.7	93.5
52.5°	1739.1	394.8	91.1	71.9	65.5	66.3	70.3	72.7	79.1	79.9	80.7
55°	1709.5	375.6	83.1	65.5	59.9	62.3	64.7	65.5	63.9	59.9	59.9
57.5°	1703.1	362.8	75.1	59.1	55.1	58.3	57.5	52.7	48.0	43.2	42.4
60°	1709.5	345.3	68.7	51.2	50.4	51.2	48.8	40.0	33.6	30.4	28.8
62.5°	1672.8	319.7	63.1	44.0	44.0	43.2	36.8	27.2	21.6	19.2	18.4
65°	1551.3	269.3	57.5	36.8	36.0	34.4	24.8	18.4	14.4	12.0	11.2
67.5°	1312.3	208.6	51.9	30.4	28.8	24.0	16.0	12.0	8.0	7.2	6.4
70°	895.1	129.5	44.0	24.0	21.6	15.2	9.6	7.2	4.8	4.0	3.2
72.5°	324.5	75.1	36.8	18.4	14.4	9.6	5.6	3.2	2.4	2.4	1.6
75°	76.7	52.7	28.0	13.6	9.6	5.6	3.2	2.4	1.6	1.6	0.8
77.5°	35.2	40.8	18.4	8.0	6.4	4.0	2.4	1.6	0.8	0.8	0.0
80°	20.0	28.8	8.8	5.6	4.8	3.2	1.6	0.8	0.8	0.0	0.0
82.5°	10.4	16.0	6.4	4.8	4.0	2.4	1.6	0.0	0.0	0.0	0.0
85°	7.2	8.0	4.8	4.0	3.2	2.4	1.6	0.0	0.0	0.0	0.0
87.5°	5.6	5.6	4.8	4.0	3.2	2.4	0.8	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)