

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: P674390

Luminaire Tested: **CCP-SA-2D-727-U-AFL-HSS**

Issue Date: 04/16/2023



Test Information

Test Method: LM-79-08
Report Number: P674390
Test Lab: INNOVATION CENTER(G2)
Issue Date: 04/16/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCP-SA-2D-727-U-AFL-HSS
Description: INVUE CLEAR CURVE POLE MOUNT Light Square Luminaire @800mA w/ AFL distribution lens and House Side Shield
Light Source: (32) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

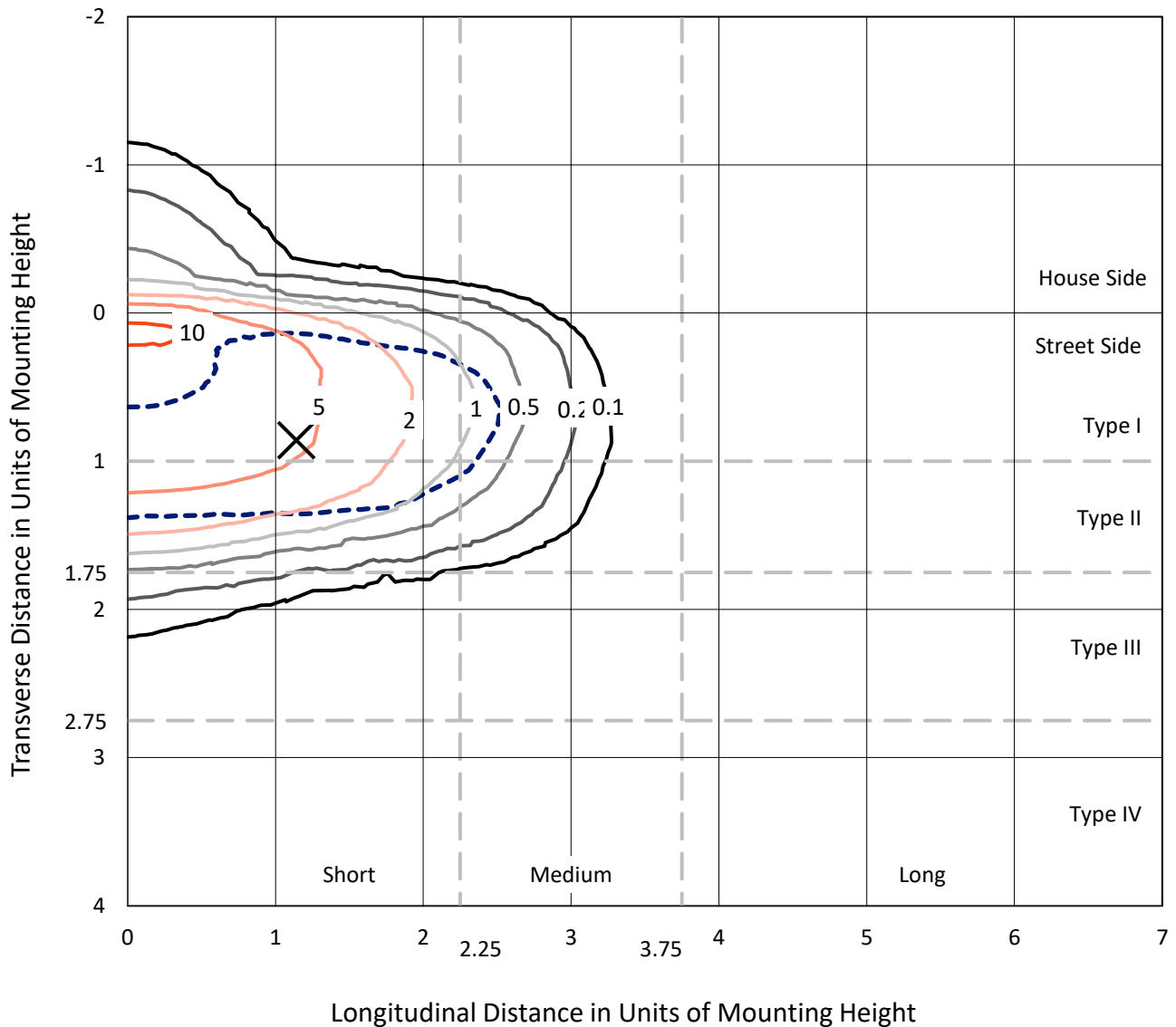
Lumens per Lamp: N/A
Luminaire Lumens: 7734.6 lumens
Efficiency: N/A
Efficacy: 95.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

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

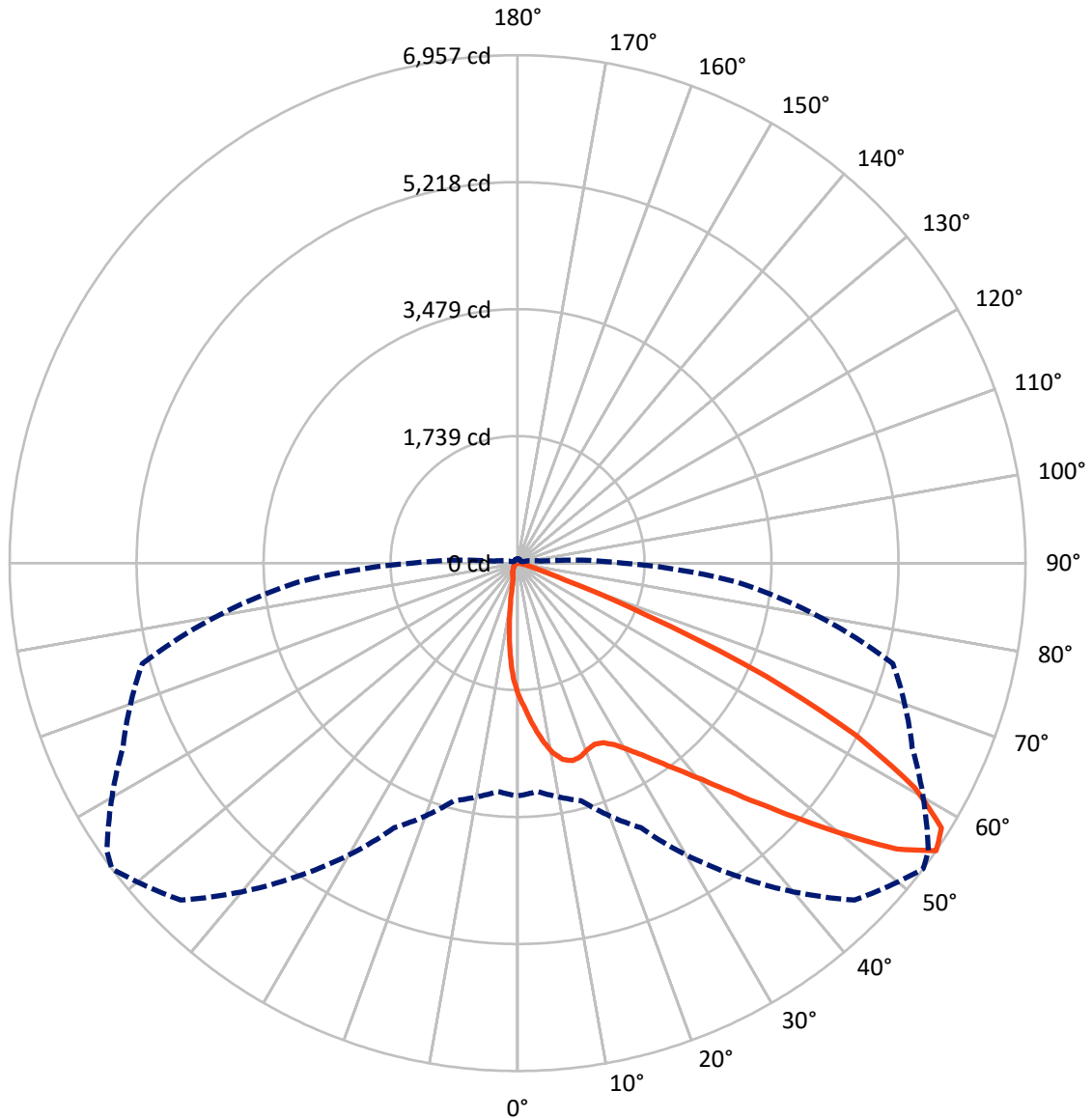
✕ Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 11.7 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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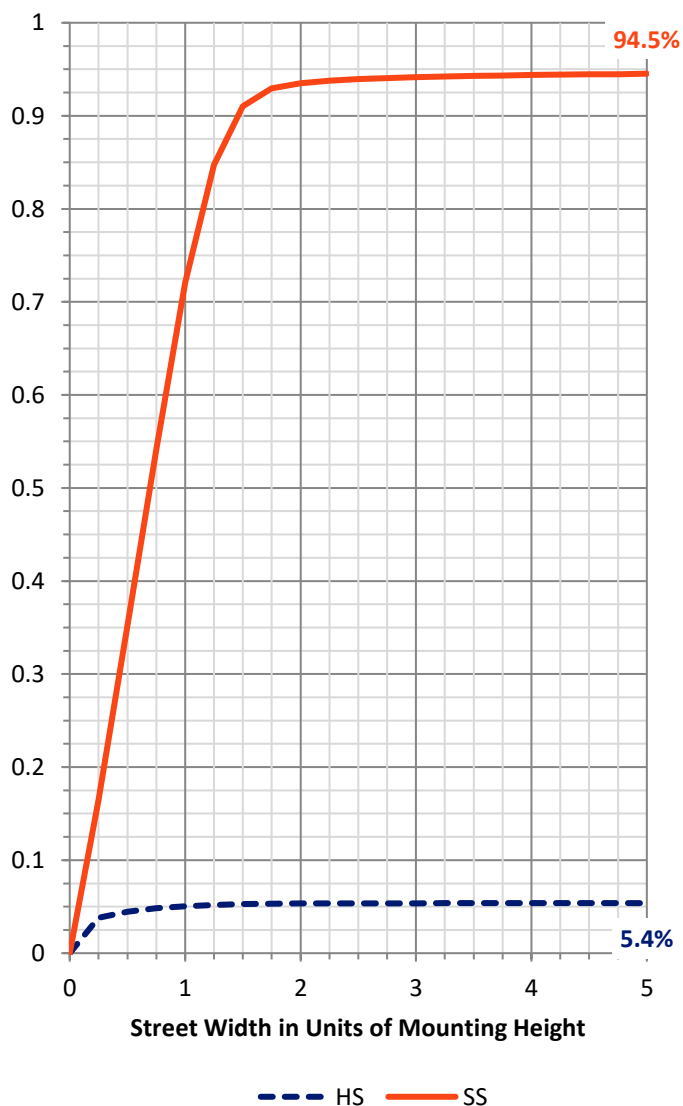
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	418.1	0.0	418.1
	% Fixture	5.4	0.0	5.4
Street Side	Lumens	7316.5	0.0	7316.5
	% Fixture	94.6	0.0	94.6
Total	Lumens	7734.6	0.0	7734.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	161.8	2.1
10°-20°	422.9	5.5
20°-30°	707.7	9.2
30°-40°	1157.9	15.0
40°-50°	1861.2	24.1
50°-60°	2101.4	27.2
60°-70°	1120.9	14.5
70°-80°	184.2	2.4
80°-90°	16.5	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°	7734.6	100.0
0°-180°	7734.6	100.0



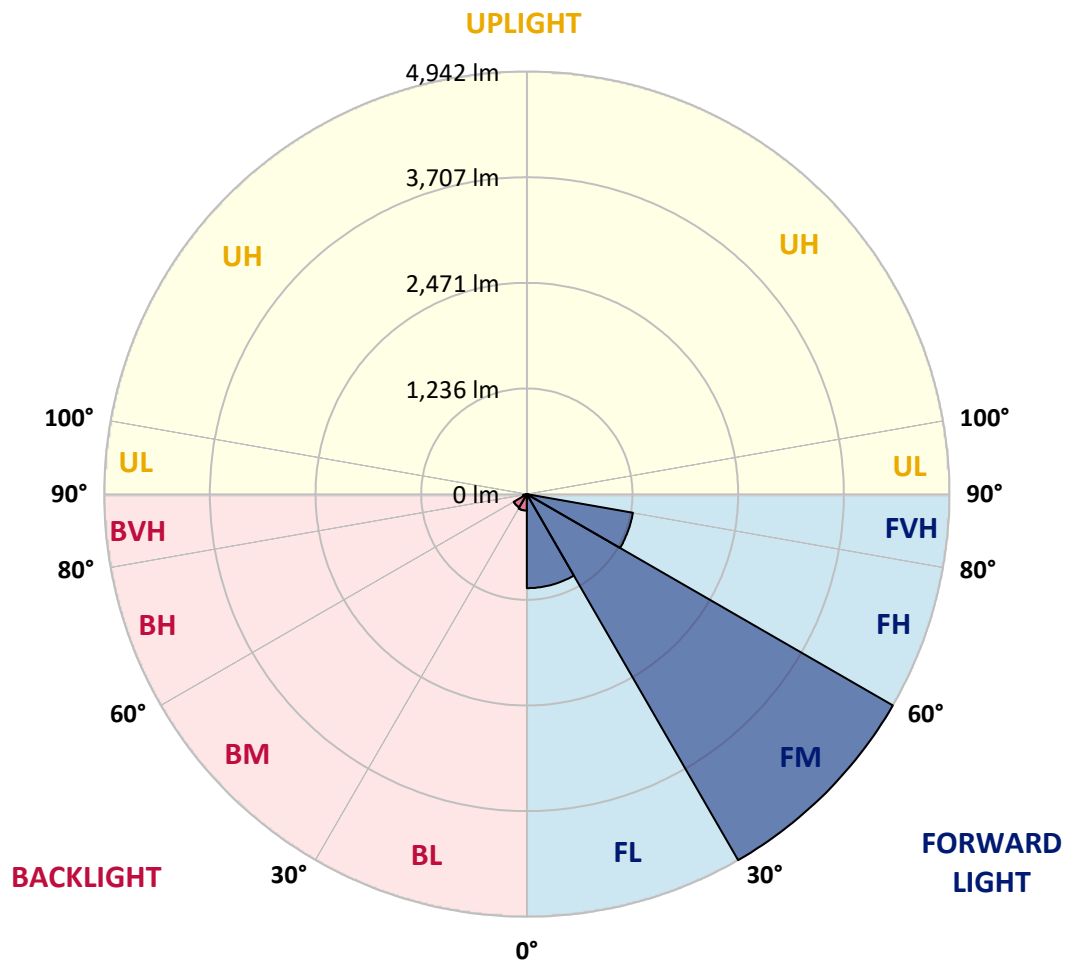
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1099.5	14.2			
FM (30°-60°)	4942.4	63.9			
FH (60°-80°)	1259.4	16.3			G1/1800
FVH (80°-90°)	15.1	0.2			G1/100
BL (0°-30°)	192.9	2.5	B1/500		
BM (30°-60°)	178.1	2.3	B0/220		
BH (60°-80°)	45.7	0.6	B0/110		G0/110
BVH (80°-90°)	1.3	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°	1810.1	1810.1	1810.1	1810.1	1810.1	1810.1	1810.1	1810.1	1810.1	1810.1	1810.1
2.5°	2170.6	2157.7	2165.2	2145.5	2109.6	2064.9	1997.8	2001.2	1948.3	1902.2	1838.5
5°	2529.1	2515.5	2511.5	2461.3	2411.2	2330.5	2230.9	2214.6	2117.7	2000.5	1867.0
7.5°	2718.1	2706.6	2715.4	2697.1	2647.7	2574.5	2448.4	2436.2	2286.5	2108.9	1912.4
10°	2631.4	2627.3	2664.6	2708.0	2748.0	2739.2	2638.2	2619.2	2451.1	2228.2	1959.2
12.5°	2398.3	2411.2	2458.6	2538.6	2661.9	2777.8	2761.5	2764.9	2619.2	2357.6	2010.7
15°	2261.4	2277.0	2304.1	2345.4	2497.2	2703.2	2808.3	2842.2	2780.5	2502.0	2071.6
17.5°	2249.9	2262.7	2266.8	2282.4	2371.2	2583.3	2789.3	2853.7	2924.2	2638.2	2140.1
20°	2338.6	2344.1	2340.7	2329.2	2361.0	2518.2	2729.7	2821.8	3042.8	2783.2	2200.4
22.5°	2506.0	2497.9	2487.7	2445.0	2443.0	2536.5	2697.1	2793.4	3113.2	2903.2	2240.4
25°	2713.4	2696.5	2682.2	2621.9	2593.5	2632.1	2726.3	2803.5	3176.9	3019.7	2268.8
27.5°	2939.7	2945.2	2909.9	2828.6	2783.9	2775.7	2816.4	2874.0	3238.6	3124.1	2284.4
30°	3181.7	3184.4	3138.3	3054.3	3013.6	2961.4	2958.7	2993.3	3305.0	3244.0	2299.3
32.5°	3457.5	3464.9	3389.7	3302.3	3231.1	3163.4	3130.2	3159.3	3424.3	3400.6	2329.8
35°	3856.0	3823.4	3721.8	3589.6	3488.7	3399.9	3349.1	3368.0	3582.9	3588.3	2390.8
37.5°	4266.6	4263.2	4150.7	3960.3	3795.0	3684.5	3597.8	3628.9	3805.8	3839.7	2488.4
40°	4649.5	4658.3	4560.7	4394.7	4181.9	3992.2	3899.3	3920.3	4102.0	4144.6	2607.0
42.5°	4899.6	4894.8	4902.3	4854.8	4641.4	4417.7	4278.1	4289.7	4446.2	4468.6	2755.4
45°	5014.8	4996.5	5060.2	5210.6	5125.9	4890.8	4731.5	4717.3	4803.3	4797.2	2890.3
47.5°	4915.2	4881.3	5027.7	5390.2	5554.2	5483.1	5255.4	5229.6	5156.4	5107.6	3030.6
50°	4419.8	4404.9	4718.0	5304.8	5823.2	6030.6	5863.2	5767.7	5471.5	5336.7	3104.4
52.5°	3948.8	3907.5	4118.9	4869.1	5703.3	6471.1	6505.7	6335.6	5733.1	5402.4	3079.3
55°	3189.8	3139.0	3369.4	4000.3	5228.2	6527.3	6957.0	6868.2	5962.2	5321.1	3028.5
57.5°	1937.5	1887.3	2226.2	2865.2	4181.2	6059.8	6845.9	6936.0	6138.4	5231.6	2995.3
60°	814.6	782.7	915.5	1367.5	2670.0	4980.2	6256.3	6481.3	6171.6	5109.0	3008.9
62.5°	423.5	409.3	416.8	547.6	1079.5	3279.3	5207.2	5598.9	5836.8	5054.8	3022.4
65°	317.8	307.0	283.3	300.9	419.5	1417.7	3742.1	4266.6	5111.0	4917.2	2930.9
67.5°	260.9	250.7	233.8	228.4	247.4	492.0	1910.4	2592.1	4005.0	4331.0	2602.9
70°	208.0	204.7	199.2	189.1	185.7	238.5	685.1	1056.5	2648.3	3054.3	1886.6
72.5°	173.5	174.2	168.1	159.3	147.1	153.8	273.1	361.2	1281.5	1464.5	790.2
75°	145.0	145.0	147.1	134.9	122.7	105.7	151.8	176.2	411.3	338.2	168.7
77.5°	113.8	115.2	124.0	113.8	98.3	66.4	82.7	94.2	122.0	97.6	61.7
80°	90.8	89.5	86.1	102.3	88.1	46.8	39.3	43.4	56.9	46.8	30.5
82.5°	63.7	63.0	60.3	69.1	68.4	34.6	25.8	26.4	34.6	29.8	19.0
85°	15.6	18.3	38.6	32.5	28.5	20.3	15.6	16.9	22.4	19.7	10.2
87.5°	6.8	6.8	17.6	21.0	13.6	8.8	6.8	7.5	11.5	11.5	6.1
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°	1810.1	1810.1	1810.1	1810.1	1810.1	1810.1	1810.1	1810.1	1810.1	1810.1	1810.1
2.5°	1816.2	1772.1	1716.5	1657.6	1597.3	1524.8	1478.7	1440.7	1410.9	1387.9	1379.7
5°	1822.9	1738.2	1612.2	1455.6	1296.4	1147.3	1032.1	946.7	876.2	837.6	820.7
7.5°	1822.3	1709.8	1482.1	1219.8	960.9	746.1	593.6	499.4	436.4	410.7	395.1
10°	1821.6	1672.5	1333.7	958.2	642.4	432.4	318.5	265.6	242.6	233.8	232.4
12.5°	1841.2	1629.8	1167.6	705.5	403.2	269.0	221.6	209.4	204.0	201.3	200.6
15°	1852.1	1590.5	992.8	498.1	271.7	212.8	197.9	192.5	190.4	189.1	188.4
17.5°	1863.6	1529.5	826.8	360.5	217.5	193.1	184.3	180.9	179.6	179.6	179.6
20°	1865.6	1463.8	662.1	265.6	193.1	180.3	171.5	168.1	166.0	164.7	164.7
22.5°	1850.7	1385.8	520.5	215.5	178.9	168.1	158.6	153.2	149.8	149.1	149.1
25°	1813.5	1275.4	399.1	189.1	167.4	155.9	144.3	138.2	135.5	135.5	135.5
27.5°	1759.9	1145.3	308.3	168.1	152.5	141.0	130.8	125.4	124.7	124.0	124.7
30°	1698.9	1019.9	235.8	149.1	134.9	125.4	117.2	114.5	115.9	115.9	116.6
32.5°	1637.9	894.5	184.3	134.2	119.3	111.1	107.1	107.1	109.1	109.1	109.1
35°	1585.8	771.9	154.5	122.0	108.4	101.7	99.6	101.7	103.0	103.7	103.7
37.5°	1556.6	666.2	136.2	111.1	99.6	94.2	93.5	95.6	98.3	100.3	101.0
40°	1545.8	584.8	125.4	103.0	91.5	88.1	87.4	90.1	94.9	98.3	98.9
42.5°	1546.4	513.0	115.9	94.9	86.1	81.3	81.3	85.4	90.1	93.5	93.5
45°	1551.2	451.3	106.4	86.7	81.3	73.2	73.9	79.3	82.7	86.1	86.1
47.5°	1555.3	401.9	96.2	77.9	70.5	66.4	67.8	71.8	76.6	82.0	82.0
50°	1531.5	366.6	86.1	68.4	61.7	60.3	63.0	66.4	73.2	78.6	79.3
52.5°	1474.6	334.8	77.3	61.0	55.6	56.2	59.6	61.7	67.1	67.8	68.4
55°	1449.5	318.5	70.5	55.6	50.8	52.9	54.9	55.6	54.2	50.8	50.8
57.5°	1444.1	307.7	63.7	50.1	46.8	49.5	48.8	44.7	40.7	36.6	35.9
60°	1449.5	292.8	58.3	43.4	42.7	43.4	41.3	33.9	28.5	25.8	24.4
62.5°	1418.4	271.1	53.5	37.3	37.3	36.6	31.2	23.0	18.3	16.3	15.6
65°	1315.4	228.4	48.8	31.2	30.5	29.1	21.0	15.6	12.2	10.2	9.5
67.5°	1112.7	176.9	44.0	25.8	24.4	20.3	13.6	10.2	6.8	6.1	5.4
70°	759.0	109.8	37.3	20.3	18.3	12.9	8.1	6.1	4.1	3.4	2.7
72.5°	275.1	63.7	31.2	15.6	12.2	8.1	4.7	2.7	2.0	2.0	1.4
75°	65.1	44.7	23.7	11.5	8.1	4.7	2.7	2.0	1.4	1.4	0.7
77.5°	29.8	34.6	15.6	6.8	5.4	3.4	2.0	1.4	0.7	0.7	0.0
80°	16.9	24.4	7.5	4.7	4.1	2.7	1.4	0.7	0.7	0.0	0.0
82.5°	8.8	13.6	5.4	4.1	3.4	2.0	1.4	0.0	0.0	0.0	0.0
85°	6.1	6.8	4.1	3.4	2.7	2.0	1.4	0.0	0.0	0.0	0.0
87.5°	4.7	4.7	4.1	3.4	2.7	2.0	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)