

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: P674489

Luminaire Tested: **CCP-SA-2D-840-U-AFL-HSS**

Issue Date: 04/16/2023



Test Information

Test Method: LM-79-08
Report Number: P674489
Test Lab: INNOVATION CENTER(G2)
Issue Date: 04/16/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCP-SA-2D-840-U-AFL-HSS
Description: INVUE CLEAR CURVE POLE MOUNT Light Square Luminaire @800mA w/ AFL distribution lens and House Side Shield
Light Source: (32) 4000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

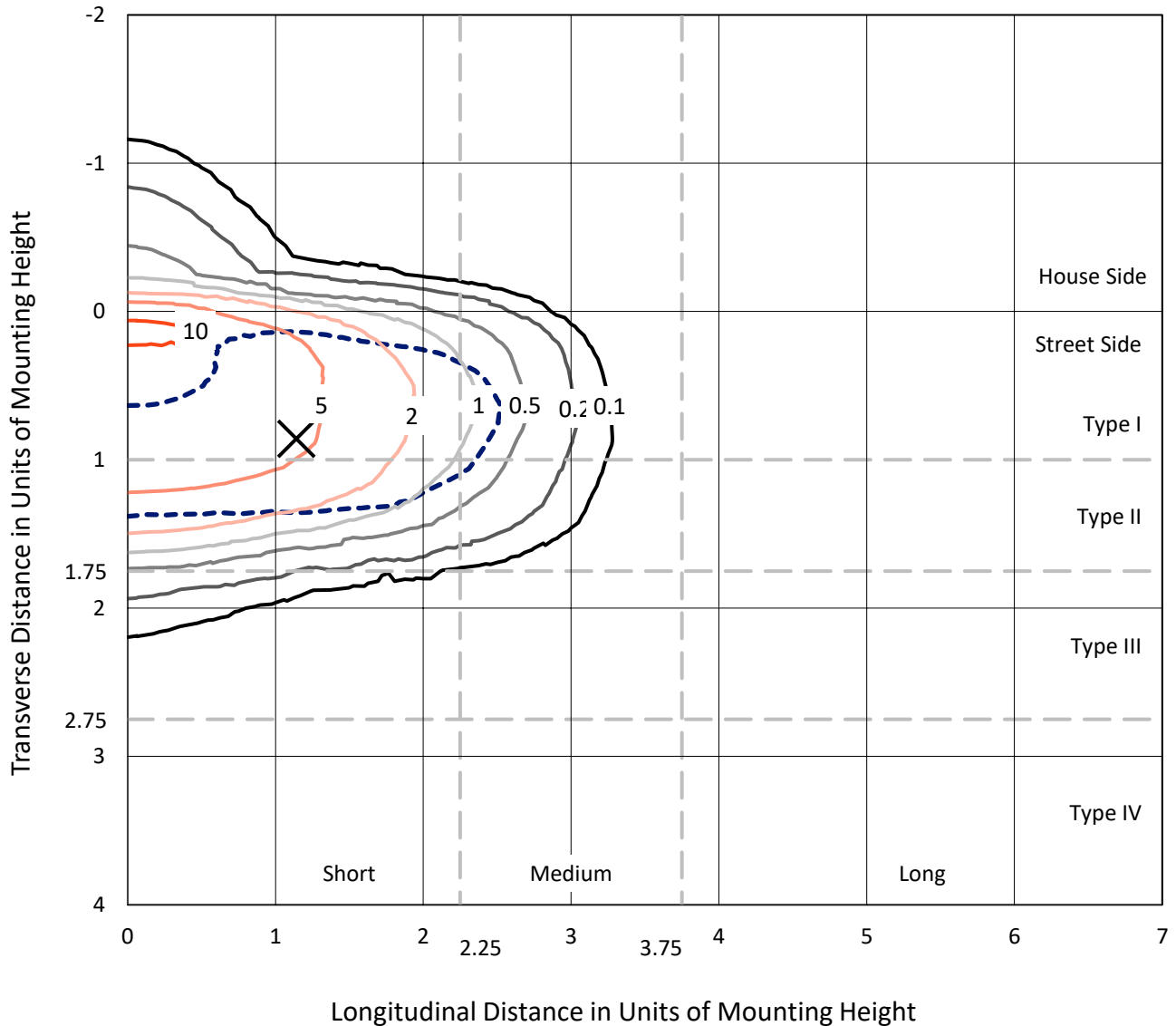
Lumens per Lamp: N/A
Luminaire Lumens: 7885.3 lumens
Efficiency: N/A
Efficacy: 97.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

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

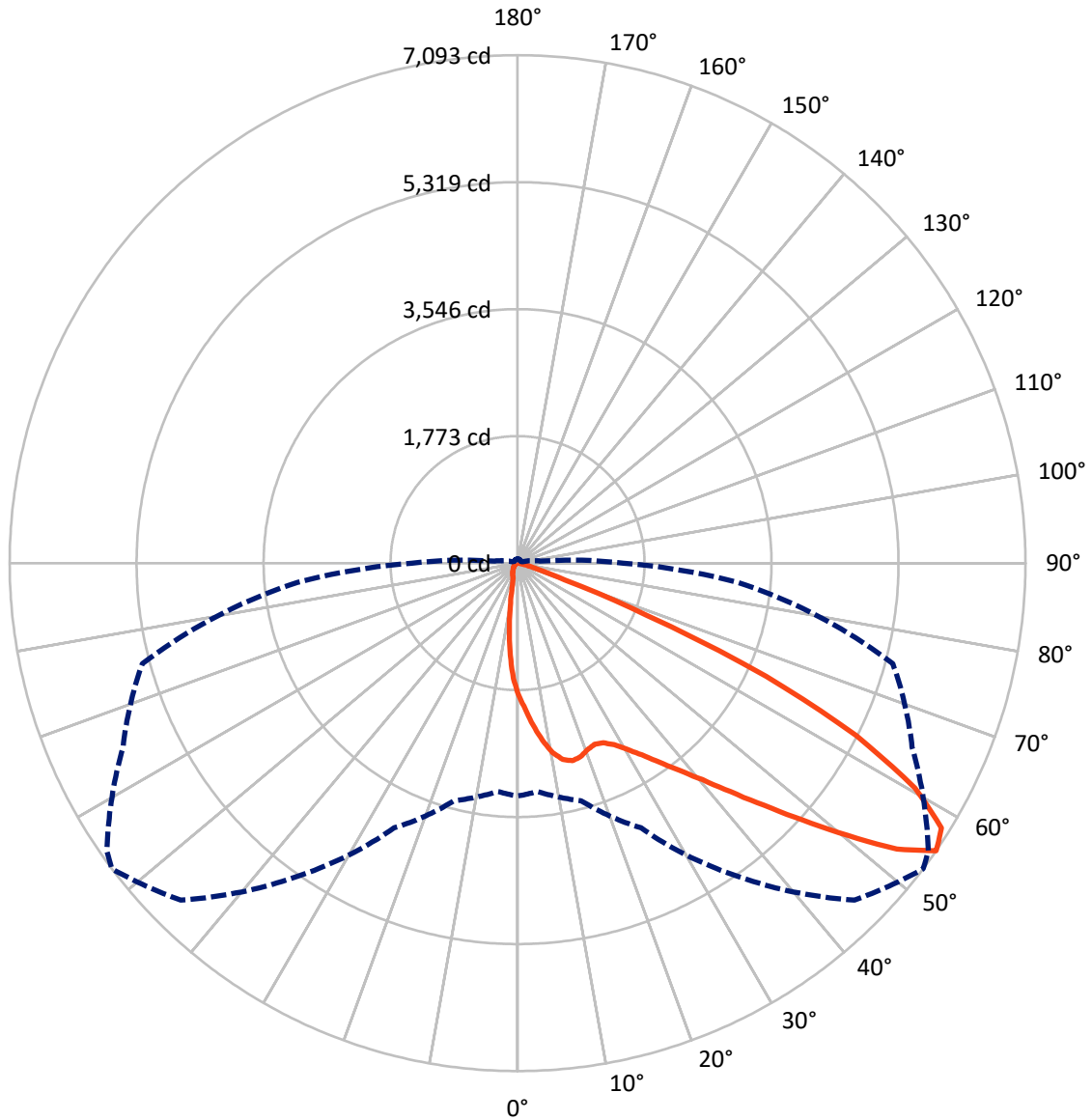
✕ Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 11.9 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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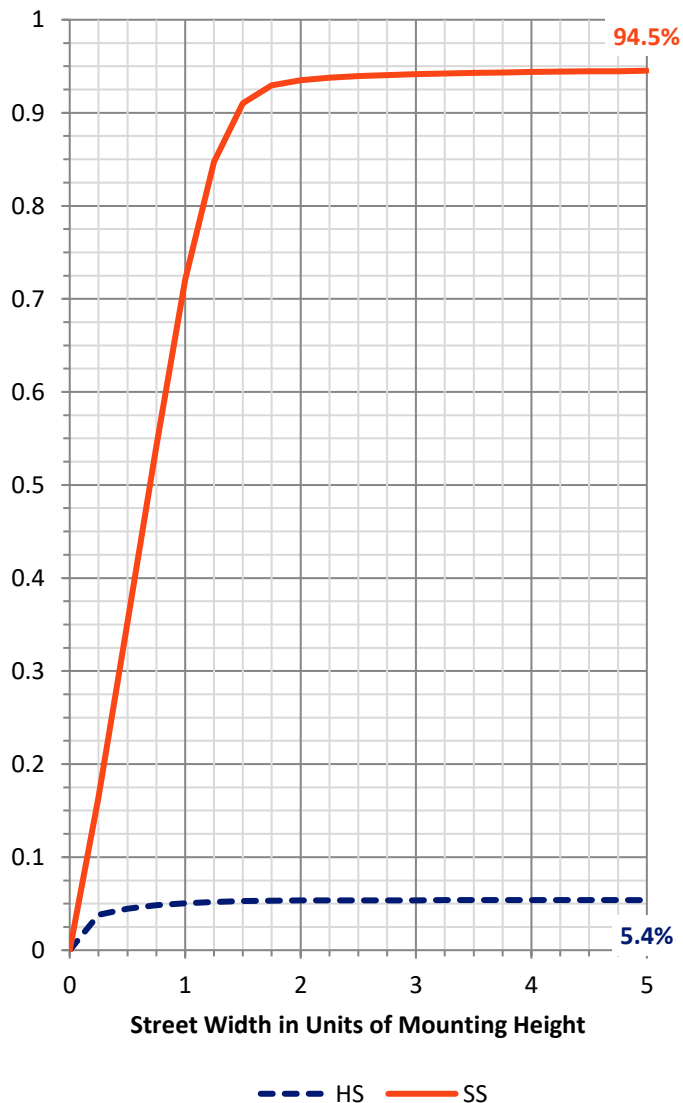
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	426.2	0.0	426.2
	% Fixture	5.4	0.0	5.4
Street Side	Lumens	7459.1	0.0	7459.1
	% Fixture	94.6	0.0	94.6
Total	Lumens	7885.3	0.0	7885.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	165.0	2.1
10°-20°	431.1	5.5
20°-30°	721.5	9.2
30°-40°	1180.5	15.0
40°-50°	1897.5	24.1
50°-60°	2142.4	27.2
60°-70°	1142.8	14.5
70°-80°	187.8	2.4
80°-90°	16.8	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°	7885.3	100.0
0°-180°	7885.3	100.0



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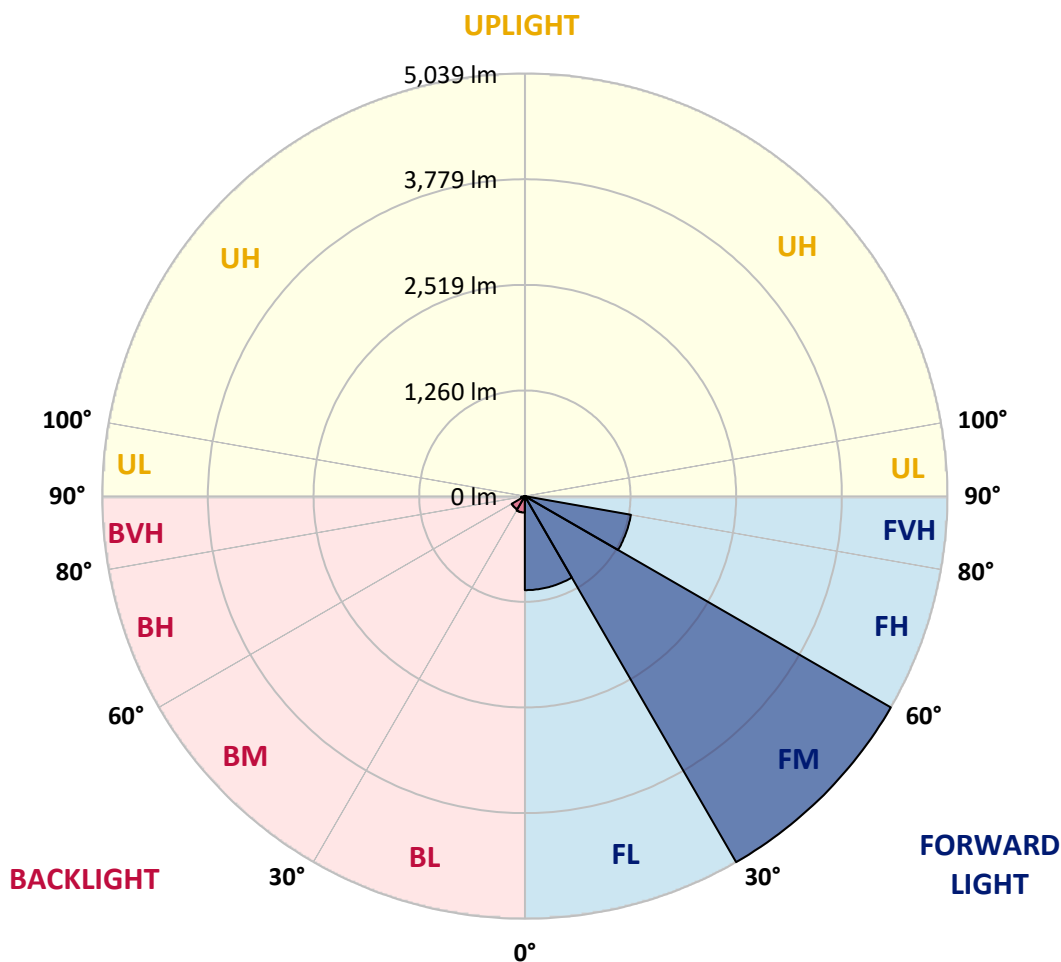
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1120.9	14.2			
FM (30°-60°)	5038.8	63.9			
FH (60°-80°)	1283.9	16.3			G1/1800
FVH (80°-90°)	15.4	0.2			G1/100
BL (0°-30°)	196.7	2.5	B1/500		
BM (30°-60°)	181.6	2.3	B0/220		
BH (60°-80°)	46.6	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°	1845.3	1845.3	1845.3	1845.3	1845.3	1845.3	1845.3	1845.3	1845.3	1845.3	1845.3
2.5°	2212.9	2199.8	2207.4	2187.3	2150.7	2105.1	2036.7	2040.2	1986.3	1939.3	1874.4
5°	2578.4	2564.6	2560.4	2509.3	2458.2	2375.9	2274.4	2257.8	2159.0	2039.5	1903.4
7.5°	2771.1	2759.4	2768.4	2749.7	2699.3	2624.7	2496.2	2483.7	2331.0	2150.0	1949.7
10°	2682.7	2678.5	2716.5	2760.8	2801.5	2792.5	2689.6	2670.3	2498.9	2271.6	1997.3
12.5°	2445.0	2458.2	2506.5	2588.0	2713.8	2831.9	2815.3	2818.8	2670.3	2403.6	2049.8
15°	2305.5	2321.4	2349.0	2391.1	2545.9	2755.9	2863.0	2897.6	2834.7	2550.7	2112.0
17.5°	2293.7	2306.9	2311.0	2326.9	2417.4	2633.6	2843.7	2909.3	2981.2	2689.6	2181.8
20°	2384.2	2389.8	2386.3	2374.6	2407.0	2567.3	2782.9	2876.8	3102.1	2837.4	2243.3
22.5°	2554.9	2546.6	2536.2	2492.7	2490.6	2586.0	2749.7	2847.8	3173.9	2959.7	2284.1
25°	2766.3	2749.0	2734.5	2673.0	2644.0	2683.4	2779.4	2858.2	3238.9	3078.6	2313.1
27.5°	2997.0	3002.6	2966.6	2883.7	2838.1	2829.8	2871.3	2930.0	3301.7	3185.0	2329.0
30°	3243.7	3246.5	3199.5	3113.8	3072.3	3019.2	3016.4	3051.6	3369.4	3307.2	2344.2
32.5°	3524.9	3532.5	3455.8	3366.7	3294.1	3225.0	3191.2	3220.9	3491.0	3466.8	2375.2
35°	3931.1	3898.0	3794.3	3659.6	3556.7	3466.2	3414.3	3433.7	3652.7	3658.2	2437.4
37.5°	4349.8	4346.3	4231.6	4037.5	3868.9	3756.3	3667.9	3699.7	3880.0	3914.5	2536.9
40°	4740.1	4749.1	4649.6	4480.4	4263.4	4070.0	3975.3	3996.7	4181.9	4225.4	2657.8
42.5°	4995.1	4990.2	4997.8	4949.5	4731.8	4503.9	4361.5	4373.3	4532.9	4555.7	2809.1
45°	5112.5	5093.9	5158.8	5312.2	5225.8	4986.1	4823.7	4809.2	4897.0	4890.7	2946.6
47.5°	5011.0	4976.4	5125.6	5495.3	5662.5	5589.9	5357.8	5331.5	5256.9	5207.2	3089.6
50°	4505.9	4490.7	4809.9	5408.2	5936.7	6148.2	5977.5	5880.1	5578.2	5440.7	3164.9
52.5°	4025.8	3983.6	4199.2	4964.0	5814.5	6597.2	6632.5	6459.0	5844.9	5507.7	3139.4
55°	3252.0	3200.2	3435.1	4078.3	5330.1	6654.6	7092.6	7002.1	6078.4	5424.8	3087.5
57.5°	1975.2	1924.1	2269.5	2921.0	4262.7	6177.9	6979.3	7071.2	6258.0	5333.6	3053.7
60°	830.4	798.0	933.4	1394.2	2722.1	5077.3	6378.2	6607.6	6291.9	5208.6	3067.5
62.5°	431.8	417.3	424.9	558.2	1100.6	3343.2	5308.7	5708.1	5950.6	5153.3	3081.3
65°	324.0	313.0	288.8	306.8	427.7	1445.3	3815.0	4349.8	5210.6	5013.0	2988.1
67.5°	266.0	255.6	238.4	232.8	252.2	501.6	1947.6	2642.6	4083.1	4415.4	2653.7
70°	212.1	208.6	203.1	192.8	189.3	243.2	698.5	1077.1	2700.0	3113.8	1923.4
72.5°	176.9	177.6	171.3	162.4	149.9	156.8	278.4	368.2	1306.5	1493.0	805.6
75°	147.8	147.8	149.9	137.5	125.0	107.8	154.8	179.6	419.4	344.7	172.0
77.5°	116.1	117.4	126.4	116.1	100.2	67.7	84.3	96.0	124.4	99.5	62.9
80°	92.6	91.2	87.7	104.3	89.8	47.7	40.1	44.2	58.0	47.7	31.1
82.5°	64.9	64.3	61.5	70.5	69.8	35.2	26.3	26.9	35.2	30.4	19.3
85°	15.9	18.7	39.4	33.2	29.0	20.7	15.9	17.3	22.8	20.0	10.4
87.5°	6.9	6.9	18.0	21.4	13.8	9.0	6.9	7.6	11.7	11.7	6.2
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°	1845.3	1845.3	1845.3	1845.3	1845.3	1845.3	1845.3	1845.3	1845.3	1845.3	1845.3
2.5°	1851.6	1806.7	1750.0	1689.9	1628.4	1554.5	1507.5	1468.8	1438.4	1414.9	1406.6
5°	1858.5	1772.1	1643.6	1484.0	1321.7	1169.7	1052.2	965.2	893.3	853.9	836.7
7.5°	1857.8	1743.1	1511.0	1243.6	979.7	760.7	605.2	509.2	444.9	418.7	402.8
10°	1857.1	1705.1	1359.7	976.9	655.0	440.8	324.7	270.8	247.3	238.4	237.0
12.5°	1877.1	1661.6	1190.4	719.2	411.1	274.3	225.9	213.5	208.0	205.2	204.5
15°	1888.2	1621.5	1012.1	507.8	277.0	216.9	201.7	196.2	194.1	192.8	192.1
17.5°	1899.9	1559.3	842.9	367.5	221.8	196.9	187.9	184.5	183.1	183.1	183.1
20°	1902.0	1492.3	675.0	270.8	196.9	183.8	174.8	171.3	169.3	167.9	167.9
22.5°	1886.8	1412.9	530.6	219.7	182.4	171.3	161.7	156.1	152.7	152.0	152.0
25°	1848.8	1300.2	406.9	192.8	170.6	158.9	147.2	140.9	138.2	138.2	138.2
27.5°	1794.2	1167.6	314.4	171.3	155.4	143.7	133.3	127.8	127.1	126.4	127.1
30°	1732.0	1039.8	240.4	152.0	137.5	127.8	119.5	116.8	118.1	118.1	118.8
32.5°	1669.9	912.0	187.9	136.8	121.6	113.3	109.2	109.2	111.2	111.2	111.2
35°	1616.7	786.9	157.5	124.4	110.5	103.6	101.6	103.6	105.0	105.7	105.7
37.5°	1587.0	679.1	138.9	113.3	101.6	96.0	95.3	97.4	100.2	102.3	102.9
40°	1575.9	596.2	127.8	105.0	93.3	89.8	89.1	91.9	96.7	100.2	100.9
42.5°	1576.6	523.0	118.1	96.7	87.7	82.9	82.9	87.1	91.9	95.3	95.3
45°	1581.4	460.1	108.5	88.4	82.9	74.6	75.3	80.8	84.3	87.7	87.7
47.5°	1585.6	409.7	98.1	79.5	71.9	67.7	69.1	73.2	78.1	83.6	83.6
50°	1561.4	373.8	87.7	69.8	62.9	61.5	64.3	67.7	74.6	80.1	80.8
52.5°	1503.4	341.3	78.8	62.2	56.7	57.3	60.8	62.9	68.4	69.1	69.8
55°	1477.8	324.7	71.9	56.7	51.8	53.9	56.0	56.7	55.3	51.8	51.8
57.5°	1472.3	313.7	64.9	51.1	47.7	50.4	49.7	45.6	41.5	37.3	36.6
60°	1477.8	298.5	59.4	44.2	43.5	44.2	42.1	34.5	29.0	26.3	24.9
62.5°	1446.0	276.4	54.6	38.0	38.0	37.3	31.8	23.5	18.7	16.6	15.9
65°	1341.0	232.8	49.7	31.8	31.1	29.7	21.4	15.9	12.4	10.4	9.7
67.5°	1134.4	180.3	44.9	26.3	24.9	20.7	13.8	10.4	6.9	6.2	5.5
70°	773.8	111.9	38.0	20.7	18.7	13.1	8.3	6.2	4.1	3.5	2.8
72.5°	280.5	64.9	31.8	15.9	12.4	8.3	4.8	2.8	2.1	2.1	1.4
75°	66.3	45.6	24.2	11.7	8.3	4.8	2.8	2.1	1.4	1.4	0.7
77.5°	30.4	35.2	15.9	6.9	5.5	3.5	2.1	1.4	0.7	0.7	0.0
80°	17.3	24.9	7.6	4.8	4.1	2.8	1.4	0.7	0.7	0.0	0.0
82.5°	9.0	13.8	5.5	4.1	3.5	2.1	1.4	0.0	0.0	0.0	0.0
85°	6.2	6.9	4.1	3.5	2.8	2.1	1.4	0.0	0.0	0.0	0.0
87.5°	4.8	4.8	4.1	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)