

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: P674476

Luminaire Tested: **CCP-SA-2B-835-U-AFL-HSS**

Issue Date: 04/16/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P674476  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 04/16/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCP-SA-2B-835-U-AFL-HSS  
Description: INVUE CLEAR CURVE POLE MOUNT Light Square Luminaire @450mA w/ AFL distribution lens and House Side Shield  
Light Source: (32) 3500K CCT, 80 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

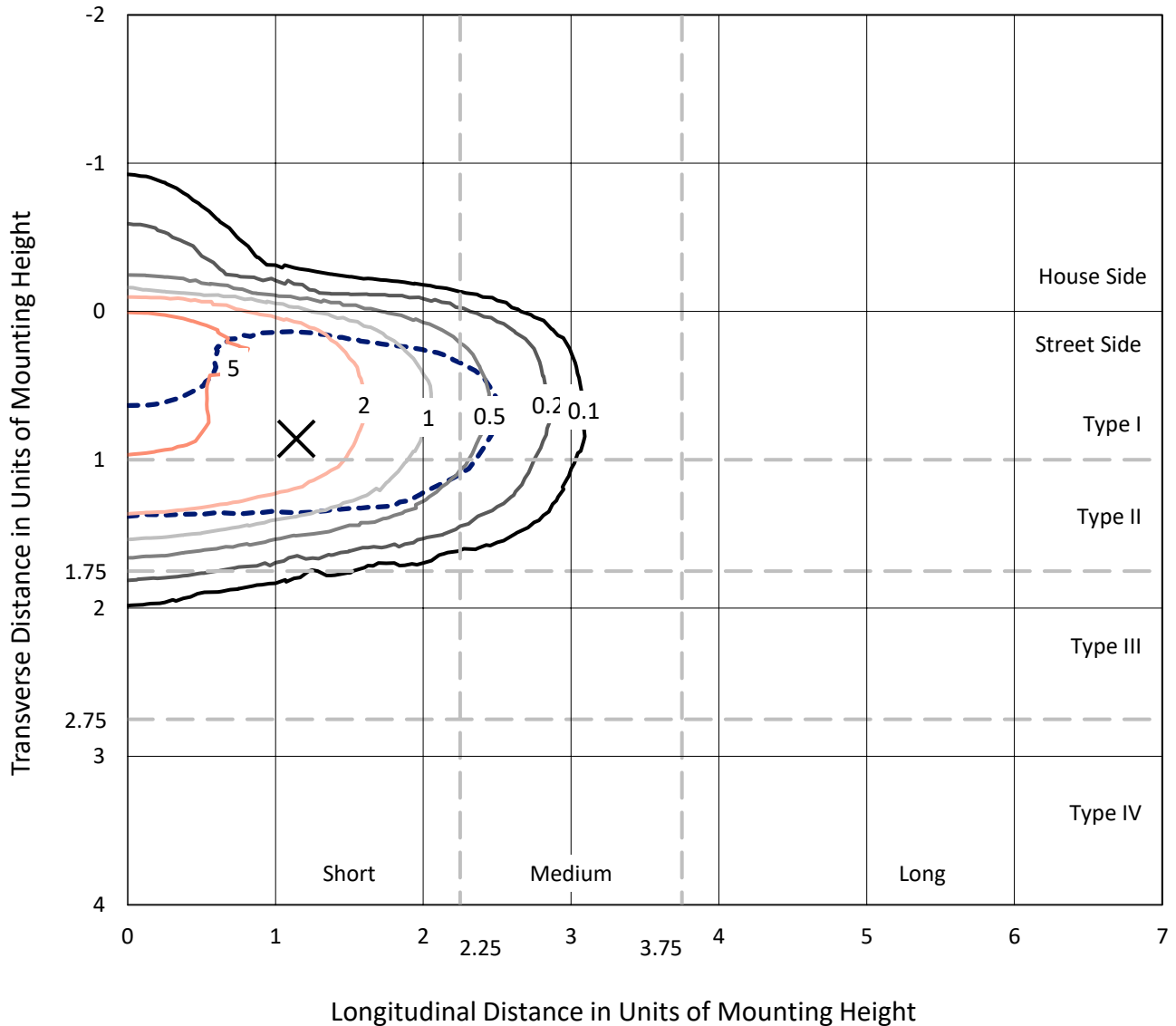
Lumens per Lamp: N/A  
Luminaire Lumens: 4719.1 lumens  
Efficiency: N/A  
Efficacy: 102.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G1

Input Watts (W): 46  
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

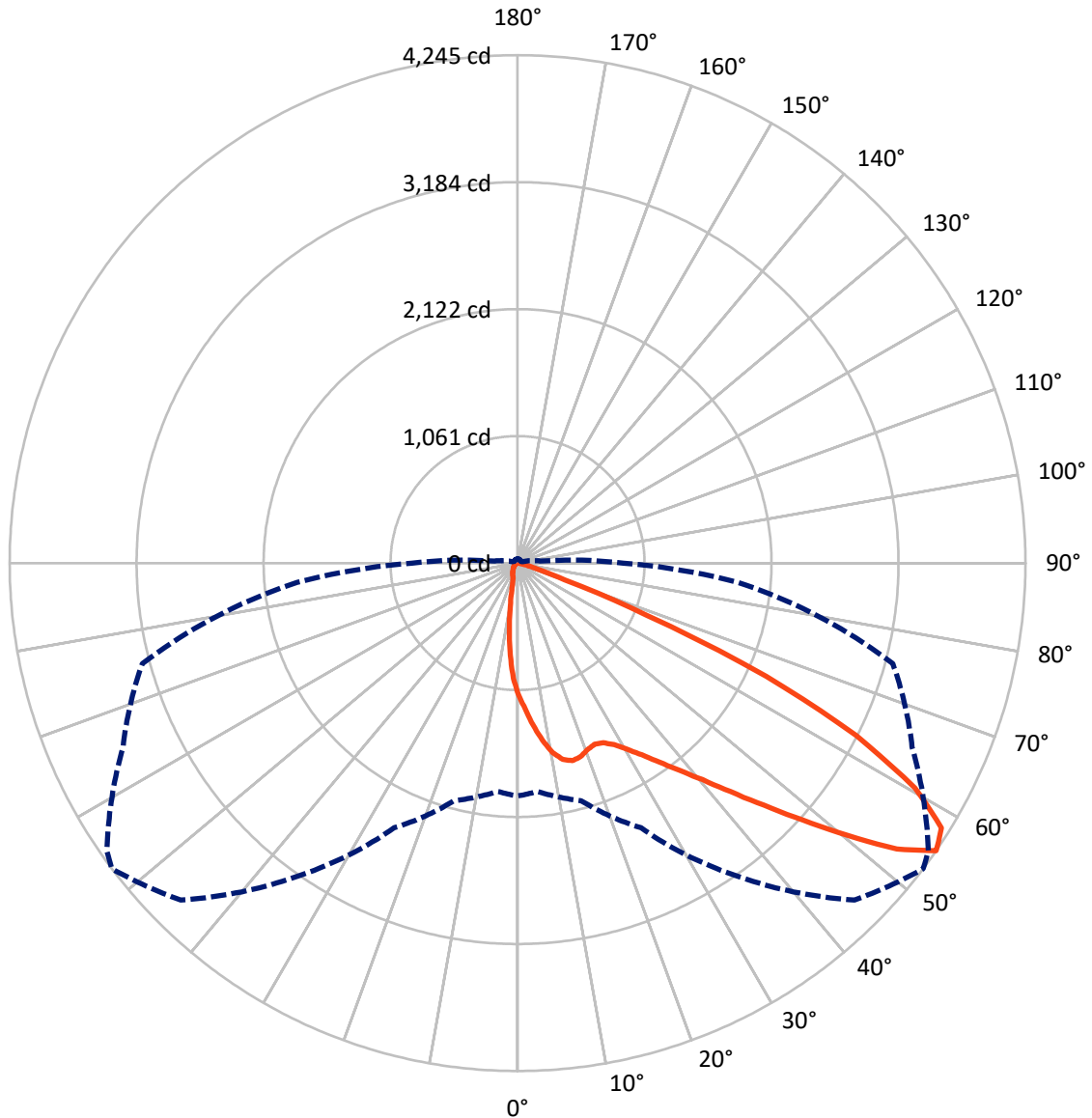
✕ Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 7.1 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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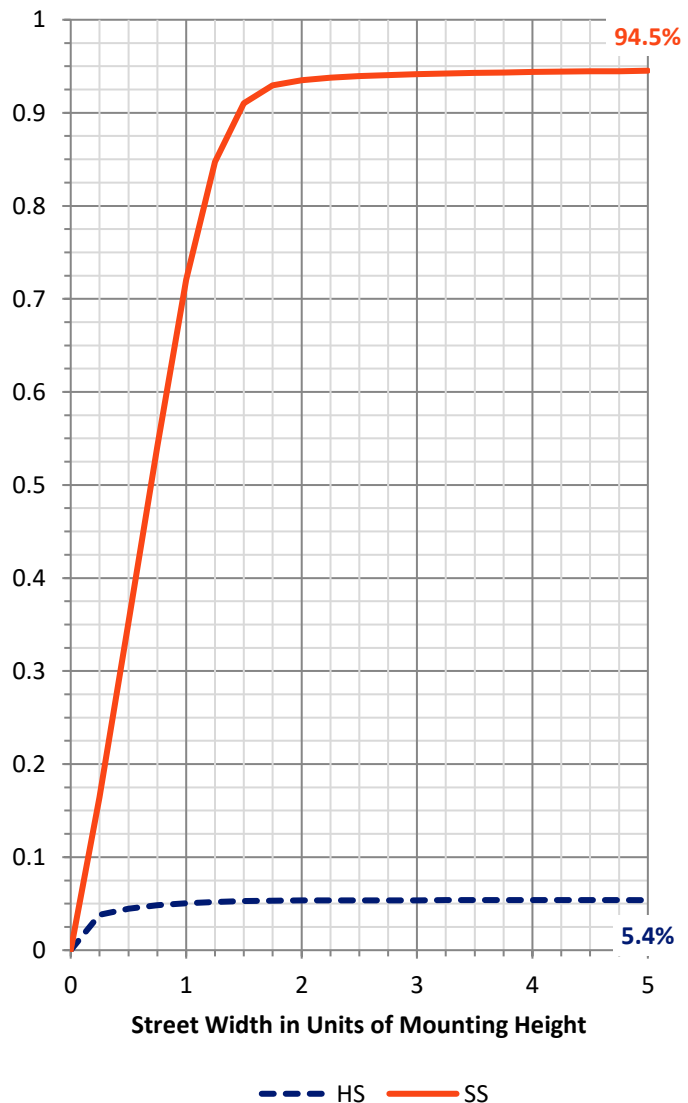
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	255.1	0.0	255.1
	% Fixture	5.4	0.0	5.4
<b>Street Side</b>	Lumens	4464.0	0.0	4464.0
	% Fixture	94.6	0.0	94.6
<b>Total</b>	Lumens	4719.1	0.0	4719.1
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	98.7	2.1
10°-20°	258.0	5.5
20°-30°	431.8	9.2
30°-40°	706.5	15.0
40°-50°	1135.6	24.1
50°-60°	1282.1	27.2
60°-70°	683.9	14.5
70°-80°	112.4	2.4
80°-90°	10.1	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°	4719.1	100.0
0°-180°	4719.1	100.0



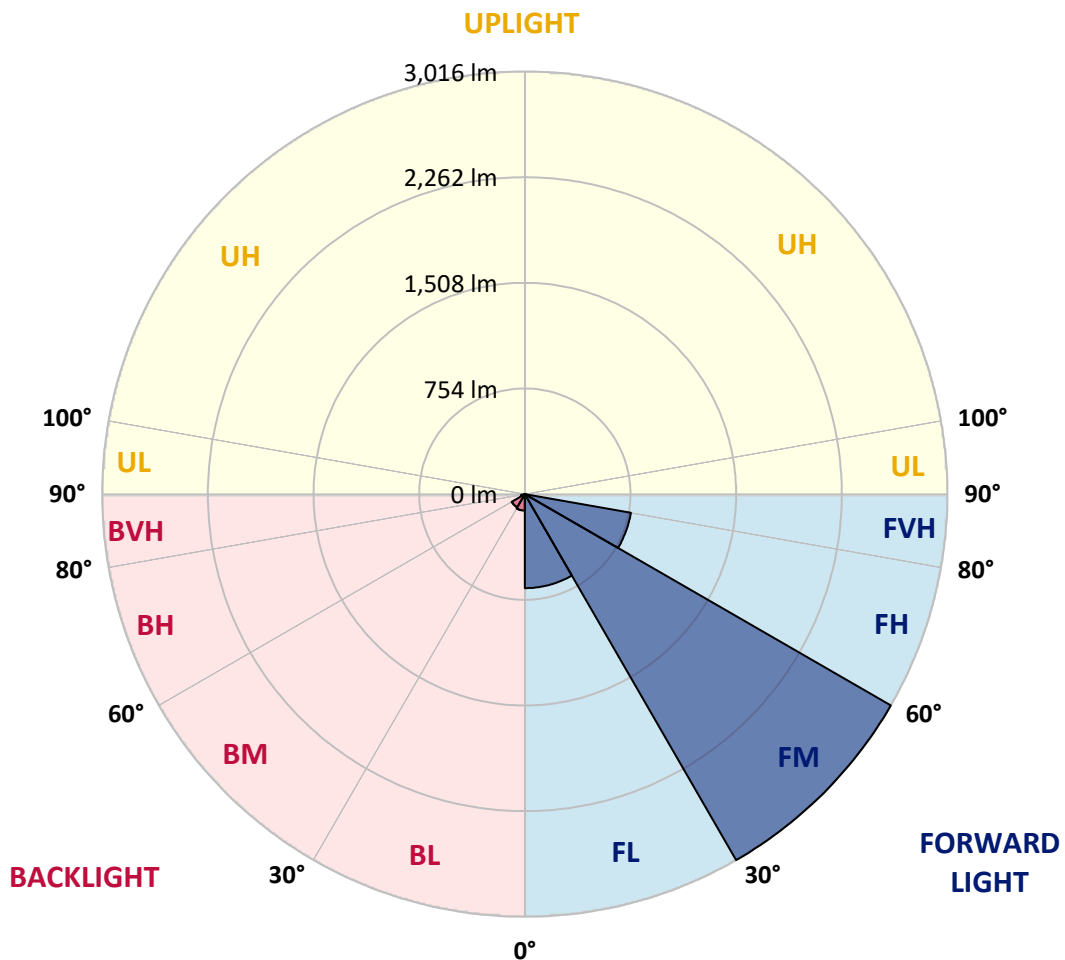
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	670.8	14.2			
FM (30°-60°)	3015.5	63.9			
FH (60°-80°)	768.4	16.3			G1/1800
FVH (80°-90°)	9.2	0.2			G0/10
BL (0°-30°)	117.7	2.5	B1/500		
BM (30°-60°)	108.7	2.3	B0/220		
BH (60°-80°)	27.9	0.6	B0/110		G0/110
BVH (80°-90°)	0.8	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°	1104.4	1104.4	1104.4	1104.4	1104.4	1104.4	1104.4	1104.4	1104.4	1104.4	1104.4
2.5°	1324.3	1316.5	1321.0	1309.0	1287.1	1259.8	1218.9	1221.0	1188.7	1160.6	1121.7
5°	1543.1	1534.8	1532.3	1501.7	1471.1	1421.9	1361.1	1351.2	1292.1	1220.6	1139.1
7.5°	1658.4	1651.4	1656.8	1645.6	1615.4	1570.8	1493.9	1486.4	1395.0	1286.7	1166.8
10°	1605.5	1603.0	1625.8	1652.2	1676.6	1671.2	1609.6	1598.1	1495.5	1359.5	1195.3
12.5°	1463.3	1471.1	1500.1	1548.8	1624.1	1694.8	1684.9	1686.9	1598.1	1438.5	1226.8
15°	1379.7	1389.3	1405.8	1431.0	1523.6	1649.3	1713.4	1734.1	1696.5	1526.5	1264.0
17.5°	1372.7	1380.6	1383.0	1392.6	1446.7	1576.1	1701.8	1741.1	1784.1	1609.6	1305.7
20°	1426.9	1430.2	1428.1	1421.1	1440.5	1536.4	1665.4	1721.7	1856.5	1698.1	1342.5
22.5°	1529.0	1524.0	1517.8	1491.8	1490.6	1547.6	1645.6	1704.3	1899.5	1771.3	1366.9
25°	1655.5	1645.2	1636.5	1599.7	1582.3	1605.9	1663.4	1710.5	1938.3	1842.4	1384.3
27.5°	1793.6	1796.9	1775.4	1725.8	1698.5	1693.6	1718.4	1753.5	1976.0	1906.1	1393.8
30°	1941.2	1942.9	1914.8	1863.5	1838.7	1806.9	1805.2	1826.3	2016.5	1979.3	1402.9
32.5°	2109.5	2114.1	2068.2	2014.8	1971.4	1930.1	1909.8	1927.6	2089.3	2074.8	1421.5
35°	2352.6	2332.8	2270.8	2190.1	2128.5	2074.4	2043.4	2054.9	2186.0	2189.3	1458.7
37.5°	2603.2	2601.1	2532.5	2416.3	2315.4	2248.0	2195.1	2214.1	2322.0	2342.7	1518.3
40°	2836.8	2842.2	2782.6	2681.3	2551.5	2435.7	2379.1	2391.9	2502.7	2528.8	1590.6
42.5°	2989.4	2986.5	2991.0	2962.1	2831.8	2695.4	2610.2	2617.2	2712.8	2726.4	1681.2
45°	3059.7	3048.5	3087.4	3179.2	3127.5	2984.0	2886.8	2878.1	2930.7	2926.9	1763.4
47.5°	2998.9	2978.2	3067.5	3288.7	3388.8	3345.4	3206.4	3190.7	3146.1	3116.3	1849.0
50°	2696.6	2687.5	2878.6	3236.6	3552.9	3679.4	3577.3	3519.0	3338.3	3256.1	1894.1
52.5°	2409.3	2384.1	2513.1	2970.8	3479.7	3948.2	3969.3	3865.5	3497.9	3296.2	1878.8
55°	1946.2	1915.2	2055.8	2440.7	3189.9	3982.5	4244.7	4190.5	3637.7	3246.5	1847.8
57.5°	1182.1	1151.5	1358.2	1748.1	2551.1	3697.2	4176.8	4231.8	3745.2	3192.0	1827.5
60°	497.0	477.6	558.6	834.4	1629.1	3038.6	3817.1	3954.4	3765.4	3117.1	1835.8
62.5°	258.4	249.7	254.3	334.1	658.7	2000.8	3177.1	3416.1	3561.2	3084.1	1844.1
65°	193.9	187.3	172.8	183.6	255.9	865.0	2283.2	2603.2	3118.4	3000.1	1788.2
67.5°	159.2	153.0	142.6	139.3	150.9	300.2	1165.6	1581.5	2443.6	2642.5	1588.1
70°	126.9	124.9	121.6	115.4	113.3	145.5	418.0	644.6	1615.8	1863.5	1151.1
72.5°	105.8	106.3	102.5	97.2	89.7	93.9	166.6	220.4	781.9	893.5	482.1
75°	88.5	88.5	89.7	82.3	74.8	64.5	92.6	107.5	251.0	206.3	103.0
77.5°	69.5	70.3	75.7	69.5	60.0	40.5	50.4	57.5	74.4	59.5	37.6
80°	55.4	54.6	52.5	62.4	53.8	28.5	24.0	26.5	34.7	28.5	18.6
82.5°	38.9	38.5	36.8	42.2	41.8	21.1	15.7	16.1	21.1	18.2	11.6
85°	9.5	11.2	23.6	19.8	17.4	12.4	9.5	10.3	13.6	12.0	6.2
87.5°	4.1	4.1	10.8	12.8	8.3	5.4	4.1	4.5	7.0	7.0	3.7
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°	1104.4	1104.4	1104.4	1104.4	1104.4	1104.4	1104.4	1104.4	1104.4	1104.4	1104.4
2.5°	1108.1	1081.2	1047.3	1011.3	974.5	930.3	902.2	879.0	860.8	846.8	841.8
5°	1112.2	1060.5	983.6	888.1	791.0	700.0	629.7	577.6	534.6	511.0	500.7
7.5°	1111.8	1043.2	904.3	744.2	586.3	455.2	362.2	304.7	266.3	250.6	241.1
10°	1111.4	1020.4	813.7	584.6	392.0	263.8	194.3	162.1	148.0	142.6	141.8
12.5°	1123.4	994.4	712.4	430.4	246.0	164.1	135.2	127.8	124.5	122.8	122.4
15°	1130.0	970.4	605.7	303.9	165.8	129.8	120.7	117.4	116.2	115.4	114.9
17.5°	1137.0	933.2	504.4	220.0	132.7	117.8	112.5	110.4	109.6	109.6	109.6
20°	1138.3	893.1	404.0	162.1	117.8	110.0	104.6	102.5	101.3	100.5	100.5
22.5°	1129.2	845.5	317.5	131.5	109.2	102.5	96.8	93.4	91.4	91.0	91.0
25°	1106.4	778.1	243.5	115.4	102.1	95.1	88.1	84.3	82.7	82.7	82.7
27.5°	1073.8	698.8	188.1	102.5	93.0	86.0	79.8	76.5	76.1	75.7	76.1
30°	1036.6	622.3	143.9	91.0	82.3	76.5	71.5	69.9	70.7	70.7	71.1
32.5°	999.4	545.8	112.5	81.9	72.8	67.8	65.3	65.3	66.6	66.6	66.6
35°	967.5	470.9	94.3	74.4	66.2	62.0	60.8	62.0	62.8	63.3	63.3
37.5°	949.7	406.4	83.1	67.8	60.8	57.5	57.1	58.3	60.0	61.2	61.6
40°	943.1	356.8	76.5	62.8	55.8	53.8	53.3	55.0	57.9	60.0	60.4
42.5°	943.5	313.0	70.7	57.9	52.5	49.6	49.6	52.1	55.0	57.1	57.1
45°	946.4	275.4	64.9	52.9	49.6	44.7	45.1	48.4	50.4	52.5	52.5
47.5°	948.9	245.2	58.7	47.5	43.0	40.5	41.3	43.8	46.7	50.0	50.0
50°	934.4	223.7	52.5	41.8	37.6	36.8	38.5	40.5	44.7	48.0	48.4
52.5°	899.7	204.3	47.1	37.2	33.9	34.3	36.4	37.6	40.9	41.3	41.8
55°	884.4	194.3	43.0	33.9	31.0	32.3	33.5	33.9	33.1	31.0	31.0
57.5°	881.1	187.7	38.9	30.6	28.5	30.2	29.8	27.3	24.8	22.3	21.9
60°	884.4	178.6	35.6	26.5	26.0	26.5	25.2	20.7	17.4	15.7	14.9
62.5°	865.4	165.4	32.7	22.7	22.7	22.3	19.0	14.1	11.2	9.9	9.5
65°	802.5	139.3	29.8	19.0	18.6	17.8	12.8	9.5	7.4	6.2	5.8
67.5°	678.9	107.9	26.9	15.7	14.9	12.4	8.3	6.2	4.1	3.7	3.3
70°	463.1	67.0	22.7	12.4	11.2	7.9	5.0	3.7	2.5	2.1	1.7
72.5°	167.9	38.9	19.0	9.5	7.4	5.0	2.9	1.7	1.2	1.2	0.8
75°	39.7	27.3	14.5	7.0	5.0	2.9	1.7	1.2	0.8	0.8	0.4
77.5°	18.2	21.1	9.5	4.1	3.3	2.1	1.2	0.8	0.4	0.4	0.0
80°	10.3	14.9	4.5	2.9	2.5	1.7	0.8	0.4	0.4	0.0	0.0
82.5°	5.4	8.3	3.3	2.5	2.1	1.2	0.8	0.0	0.0	0.0	0.0
85°	3.7	4.1	2.5	2.1	1.7	1.2	0.8	0.0	0.0	0.0	0.0
87.5°	2.9	2.9	2.5	2.1	1.7	1.2	0.4	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)