

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: P674421

Luminaire Tested: **CCP-SA-2B-740-U-AFL-HSS**

Issue Date: 04/16/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P674421  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 04/16/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCP-SA-2B-740-U-AFL-HSS  
Description: INVUE CLEAR CURVE POLE MOUNT Light Square Luminaire @450mA w/ AFL distribution lens and House Side Shield  
Light Source: (32) 4000K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

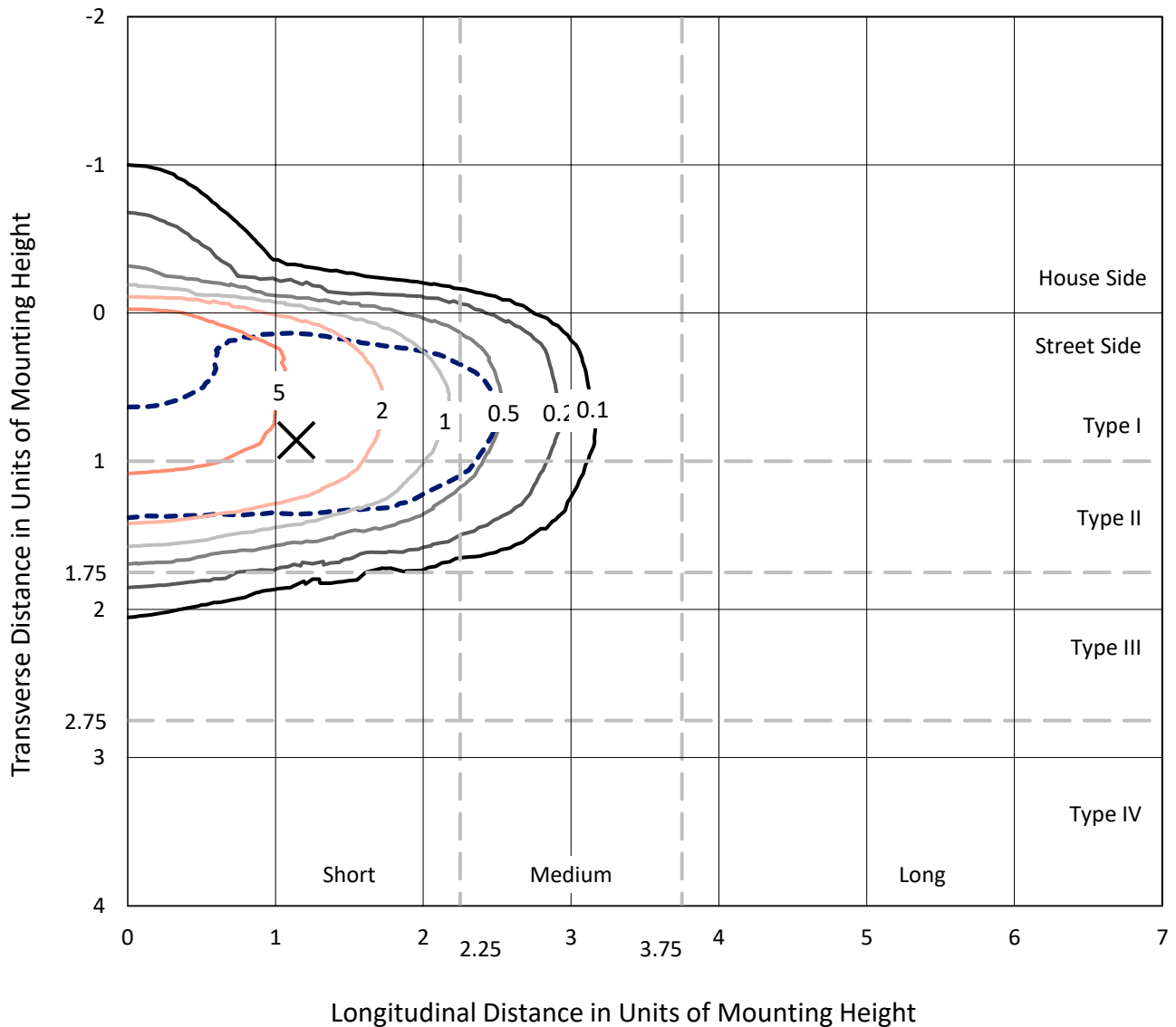
Lumens per Lamp: N/A  
Luminaire Lumens: 5727 lumens  
Efficiency: N/A  
Efficacy: 124.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G1

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

REPORT NUMBER: P674421  
 CATALOG NUMBER: CCP-SA-2B-740-U-AFL-HSS

### Iso-Footcandle Lines of Horizontal Illumination

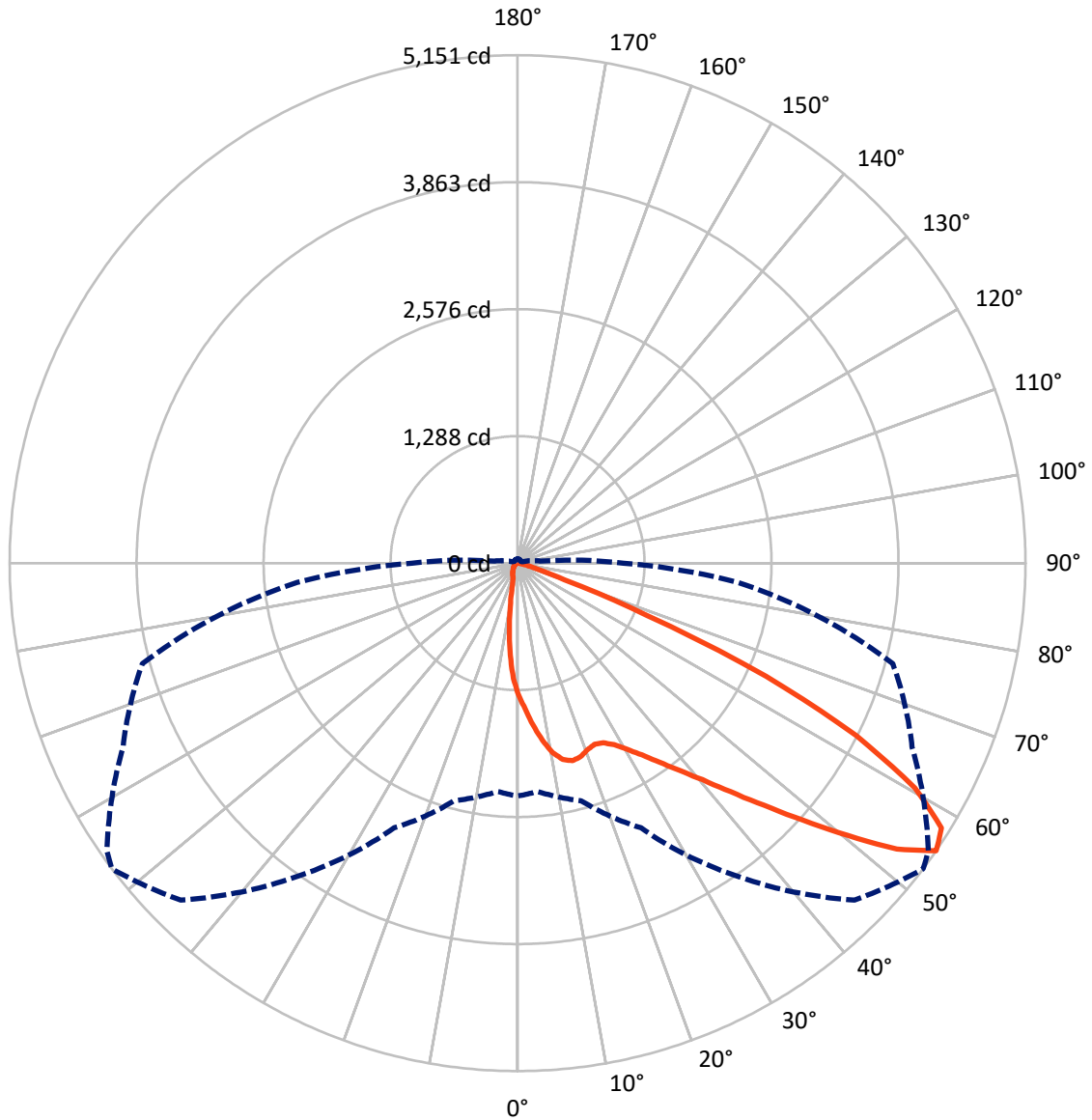
✕ Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 8.6 fc  
 Type II - Short - N/A

REPORT NUMBER: P674421  
CATALOG NUMBER: CCP-SA-2B-740-U-AFL-HSS

### Luminous Intensity Polar Plot



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

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 CATALOG NUMBER: CCP-SA-2B-740-U-AFL-HSS

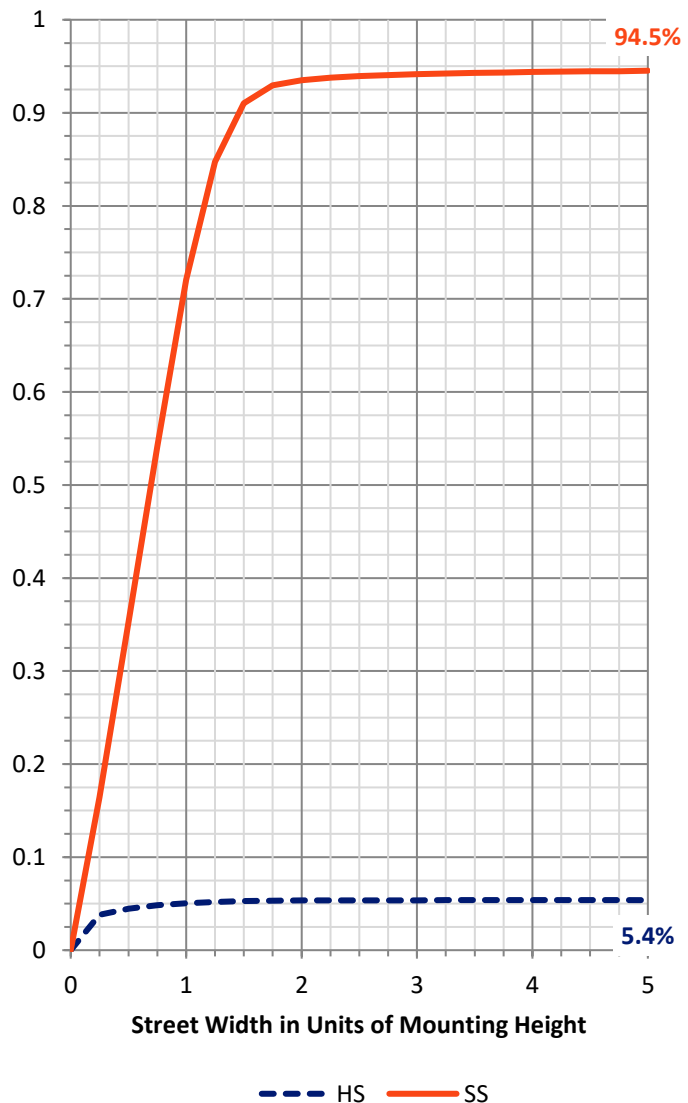
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	309.6	0.0	309.6
	% Fixture	5.4	0.0	5.4
<b>Street Side</b>	Lumens	5417.4	0.0	5417.4
	% Fixture	94.6	0.0	94.6
<b>Total</b>	Lumens	5727.0	0.0	5727.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	119.8	2.1
10°-20°	313.1	5.5
20°-30°	524.0	9.2
30°-40°	857.4	15.0
40°-50°	1378.2	24.1
50°-60°	1556.0	27.2
60°-70°	830.0	14.5
70°-80°	136.4	2.4
80°-90°	12.2	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°	5727.0	100.0
0°-180°	5727.0	100.0



REPORT NUMBER: P674421

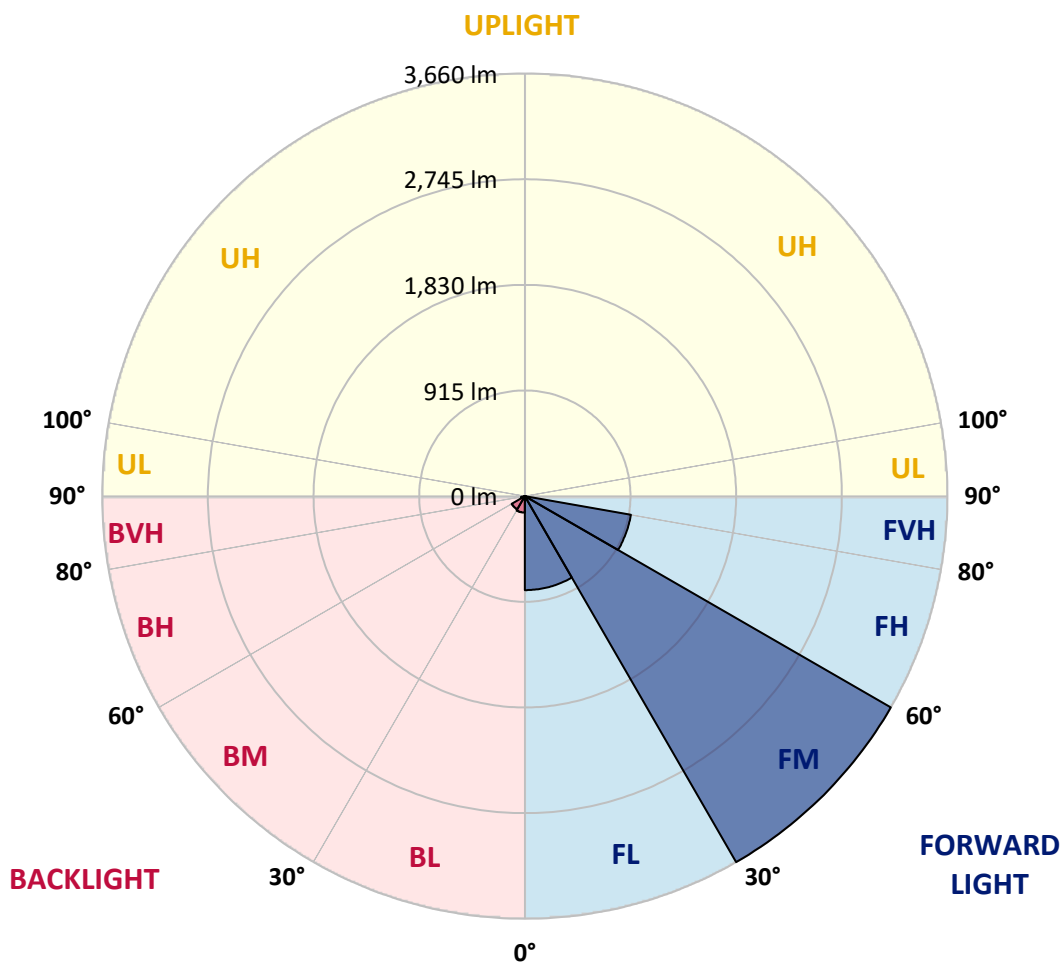
CATALOG NUMBER: CCP-SA-2B-740-U-AFL-HSS

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	814.1	14.2			
FM (30°-60°)	3659.6	63.9			
FH (60°-80°)	932.5	16.3			G1/1800
FVH (80°-90°)	11.2	0.2			G1/100
BL (0°-30°)	142.9	2.5	B1/500		
BM (30°-60°)	131.9	2.3	B0/220		
BH (60°-80°)	33.8	0.6	B0/110		G0/110
BVH (80°-90°)	1.0	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





REPORT NUMBER: P674421

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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	1340.3	1340.3	1340.3	1340.3	1340.3	1340.3	1340.3	1340.3	1340.3	1340.3	1340.3
2.5°	1607.2	1597.7	1603.2	1588.6	1562.0	1528.9	1479.3	1481.8	1442.6	1408.5	1361.3
5°	1872.6	1862.6	1859.6	1822.5	1785.3	1725.6	1651.9	1639.8	1568.1	1481.3	1382.4
7.5°	2012.6	2004.1	2010.6	1997.1	1960.5	1906.3	1812.9	1803.9	1693.0	1561.5	1416.0
10°	1948.4	1945.4	1973.0	2005.1	2034.7	2028.2	1953.4	1939.4	1814.9	1649.9	1450.6
12.5°	1775.8	1785.3	1820.5	1879.7	1971.0	2056.8	2044.8	2047.3	1939.4	1745.7	1488.8
15°	1674.4	1686.0	1706.1	1736.7	1849.1	2001.6	2079.4	2104.5	2058.8	1852.6	1533.9
17.5°	1665.9	1675.4	1678.5	1690.0	1755.7	1912.8	2065.3	2113.0	2165.2	1953.4	1584.6
20°	1731.6	1735.7	1733.2	1724.6	1748.2	1864.6	2021.2	2089.4	2253.0	2060.8	1629.3
22.5°	1855.6	1849.6	1842.0	1810.4	1808.9	1878.2	1997.1	2068.3	2305.2	2149.6	1658.9
25°	2009.1	1996.6	1986.0	1941.4	1920.3	1948.9	2018.7	2075.9	2352.3	2235.9	1680.0
27.5°	2176.7	2180.7	2154.6	2094.4	2061.3	2055.3	2085.4	2128.1	2398.0	2313.2	1691.5
30°	2355.9	2357.9	2323.7	2261.5	2231.4	2192.8	2190.8	2216.4	2447.2	2402.0	1702.5
32.5°	2560.1	2565.6	2509.9	2445.2	2392.5	2342.3	2317.7	2339.3	2535.5	2517.9	1725.1
35°	2855.1	2831.0	2755.8	2657.9	2583.2	2517.4	2479.8	2493.9	2652.9	2656.9	1770.3
37.5°	3159.2	3156.7	3073.4	2932.4	2810.0	2728.2	2664.0	2687.0	2818.0	2843.1	1842.5
40°	3442.7	3449.2	3377.0	3254.0	3096.5	2956.0	2887.2	2902.8	3037.3	3068.9	1930.4
42.5°	3627.9	3624.4	3629.9	3594.8	3436.7	3271.1	3167.7	3176.3	3292.2	3308.7	2040.2
45°	3713.2	3699.6	3746.8	3858.2	3795.5	3621.4	3503.4	3492.9	3556.6	3552.1	2140.1
47.5°	3639.4	3614.3	3722.7	3991.2	4112.6	4059.9	3891.3	3872.2	3818.1	3781.9	2244.0
50°	3272.6	3261.6	3493.4	3927.9	4311.8	4465.3	4341.4	4270.7	4051.4	3951.5	2298.7
52.5°	2923.9	2893.3	3049.8	3605.3	4223.0	4791.5	4817.1	4691.1	4245.1	4000.2	2280.1
55°	2361.9	2324.2	2494.9	2962.0	3871.2	4833.2	5151.3	5085.5	4414.7	3940.0	2242.5
57.5°	1434.6	1397.5	1648.4	2121.5	3096.0	4486.9	5069.0	5135.7	4545.1	3873.7	2217.9
60°	603.1	579.6	677.9	1012.6	1977.0	3687.6	4632.4	4799.0	4569.7	3782.9	2227.9
62.5°	313.6	303.1	308.6	405.4	799.3	2428.1	3855.7	4145.7	4321.8	3742.8	2237.9
65°	235.3	227.3	209.7	222.8	310.6	1049.7	2770.8	3159.2	3784.4	3640.9	2170.2
67.5°	193.2	185.7	173.1	169.1	183.2	364.3	1414.5	1919.3	2965.5	3206.9	1927.3
70°	154.0	151.5	147.5	140.0	137.5	176.6	507.3	782.3	1961.0	2261.5	1397.0
72.5°	128.5	129.0	124.4	117.9	108.9	113.9	202.2	267.4	948.9	1084.3	585.1
75°	107.4	107.4	108.9	99.9	90.8	78.3	112.4	130.5	304.6	250.4	124.9
77.5°	84.3	85.3	91.8	84.3	72.8	49.2	61.2	69.7	90.3	72.3	45.7
80°	67.2	66.2	63.7	75.8	65.2	34.6	29.1	32.1	42.1	34.6	22.6
82.5°	47.2	46.7	44.7	51.2	50.7	25.6	19.1	19.6	25.6	22.1	14.0
85°	11.5	13.5	28.6	24.1	21.1	15.1	11.5	12.5	16.6	14.6	7.5
87.5°	5.0	5.0	13.0	15.6	10.0	6.5	5.0	5.5	8.5	8.5	4.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P674421  
 CATALOG NUMBER: CCP-SA-2B-740-U-AFL-HSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1340.3	1340.3	1340.3	1340.3	1340.3	1340.3	1340.3	1340.3	1340.3	1340.3	1340.3
2.5°	1344.8	1312.2	1271.0	1227.4	1182.7	1129.0	1094.9	1066.8	1044.7	1027.6	1021.6
5°	1349.8	1287.1	1193.7	1077.8	959.9	849.5	764.2	701.0	648.8	620.2	607.7
7.5°	1349.3	1266.0	1097.4	903.2	711.5	552.5	439.6	369.8	323.1	304.1	292.5
10°	1348.8	1238.4	987.5	709.5	475.7	320.1	235.8	196.7	179.6	173.1	172.1
12.5°	1363.3	1206.8	864.6	522.4	298.6	199.2	164.1	155.1	151.0	149.0	148.5
15°	1371.4	1177.7	735.1	368.8	201.2	157.6	146.5	142.5	141.0	140.0	139.5
17.5°	1379.9	1132.5	612.2	266.9	161.1	143.0	136.5	134.0	133.0	133.0	133.0
20°	1381.4	1083.8	490.2	196.7	143.0	133.5	127.0	124.4	122.9	121.9	121.9
22.5°	1370.4	1026.1	385.4	159.6	132.5	124.4	117.4	113.4	110.9	110.4	110.4
25°	1342.8	944.4	295.5	140.0	123.9	115.4	106.9	102.4	100.4	100.4	100.4
27.5°	1303.1	848.0	228.3	124.4	112.9	104.4	96.8	92.8	92.3	91.8	92.3
30°	1258.0	755.2	174.6	110.4	99.9	92.8	86.8	84.8	85.8	85.8	86.3
32.5°	1212.8	662.4	136.5	99.4	88.3	82.3	79.3	79.3	80.8	80.8	80.8
35°	1174.2	571.5	114.4	90.3	80.3	75.3	73.8	75.3	76.3	76.8	76.8
37.5°	1152.6	493.3	100.9	82.3	73.8	69.7	69.2	70.8	72.8	74.3	74.8
40°	1144.6	433.0	92.8	76.3	67.7	65.2	64.7	66.7	70.2	72.8	73.3
42.5°	1145.1	379.8	85.8	70.2	63.7	60.2	60.2	63.2	66.7	69.2	69.2
45°	1148.6	334.2	78.8	64.2	60.2	54.2	54.7	58.7	61.2	63.7	63.7
47.5°	1151.6	297.6	71.3	57.7	52.2	49.2	50.2	53.2	56.7	60.7	60.7
50°	1134.0	271.5	63.7	50.7	45.7	44.7	46.7	49.2	54.2	58.2	58.7
52.5°	1091.9	247.9	57.2	45.2	41.1	41.6	44.2	45.7	49.7	50.2	50.7
55°	1073.3	235.8	52.2	41.1	37.6	39.1	40.6	41.1	40.1	37.6	37.6
57.5°	1069.3	227.8	47.2	37.1	34.6	36.6	36.1	33.1	30.1	27.1	26.6
60°	1073.3	216.8	43.2	32.1	31.6	32.1	30.6	25.1	21.1	19.1	18.1
62.5°	1050.2	200.7	39.6	27.6	27.6	27.1	23.1	17.1	13.5	12.0	11.5
65°	974.0	169.1	36.1	23.1	22.6	21.6	15.6	11.5	9.0	7.5	7.0
67.5°	823.9	131.0	32.6	19.1	18.1	15.1	10.0	7.5	5.0	4.5	4.0
70°	562.0	81.3	27.6	15.1	13.5	9.5	6.0	4.5	3.0	2.5	2.0
72.5°	203.7	47.2	23.1	11.5	9.0	6.0	3.5	2.0	1.5	1.5	1.0
75°	48.2	33.1	17.6	8.5	6.0	3.5	2.0	1.5	1.0	1.0	0.5
77.5°	22.1	25.6	11.5	5.0	4.0	2.5	1.5	1.0	0.5	0.5	0.0
80°	12.5	18.1	5.5	3.5	3.0	2.0	1.0	0.5	0.5	0.0	0.0
82.5°	6.5	10.0	4.0	3.0	2.5	1.5	1.0	0.0	0.0	0.0	0.0
85°	4.5	5.0	3.0	2.5	2.0	1.5	1.0	0.0	0.0	0.0	0.0
87.5°	3.5	3.5	3.0	2.5	2.0	1.5	0.5	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)