

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: P670931

Luminaire Tested: **CCP-SA-2A-727-U-T4FT**

Issue Date: 04/16/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P670931  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 04/16/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCP-SA-2A-727-U-T4FT  
Description: INVUE CLEAR CURVE POLE MOUNT LIGHT SQUARE LUMINAIRE @350mA w/ T4FT distribution lens  
Light Source: (32) 2700K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

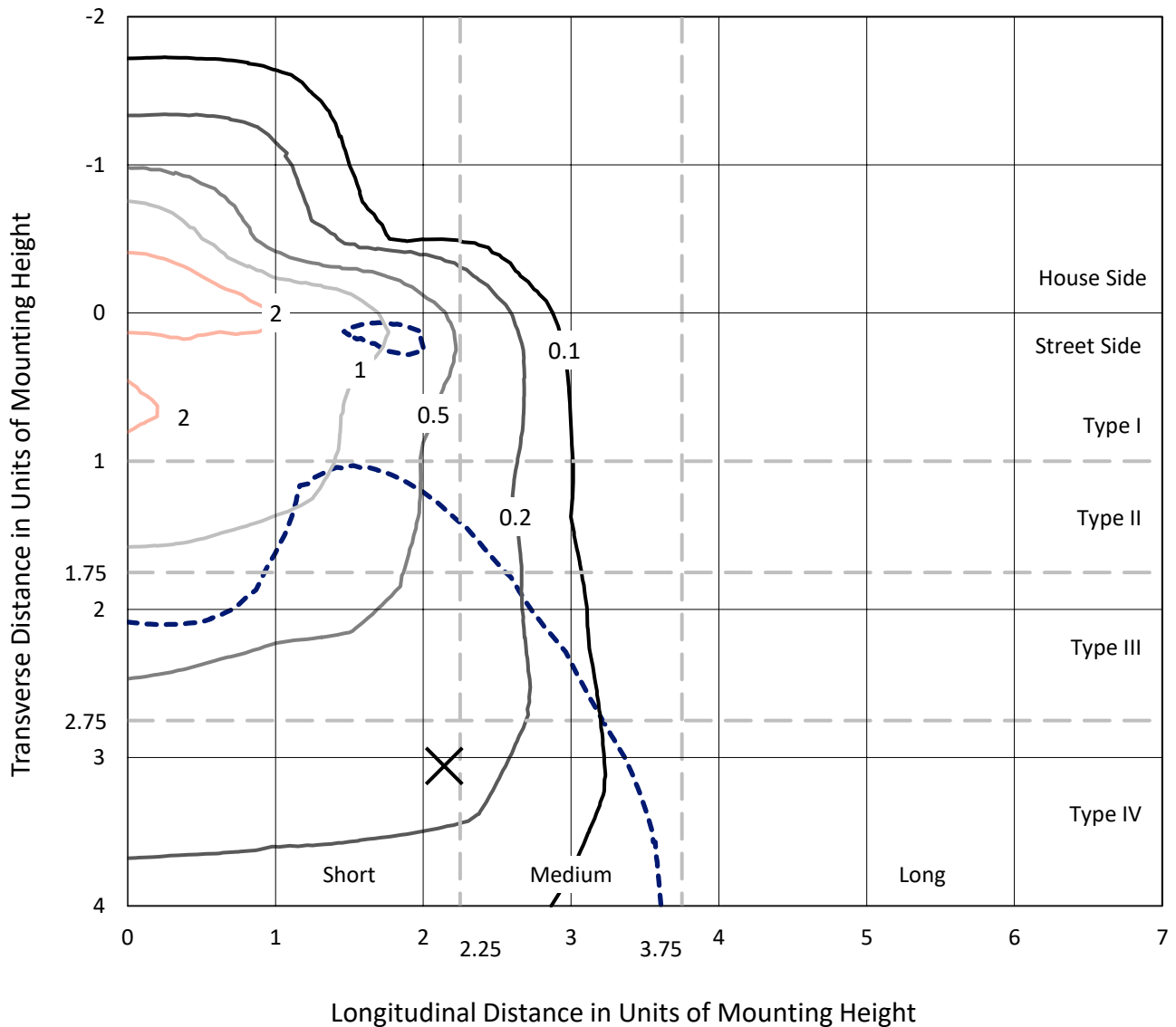
Lumens per Lamp: N/A  
Luminaire Lumens: 4573.1 lumens  
Efficiency: N/A  
Efficacy: 126.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G2

Input Watts (W): 36.2  
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

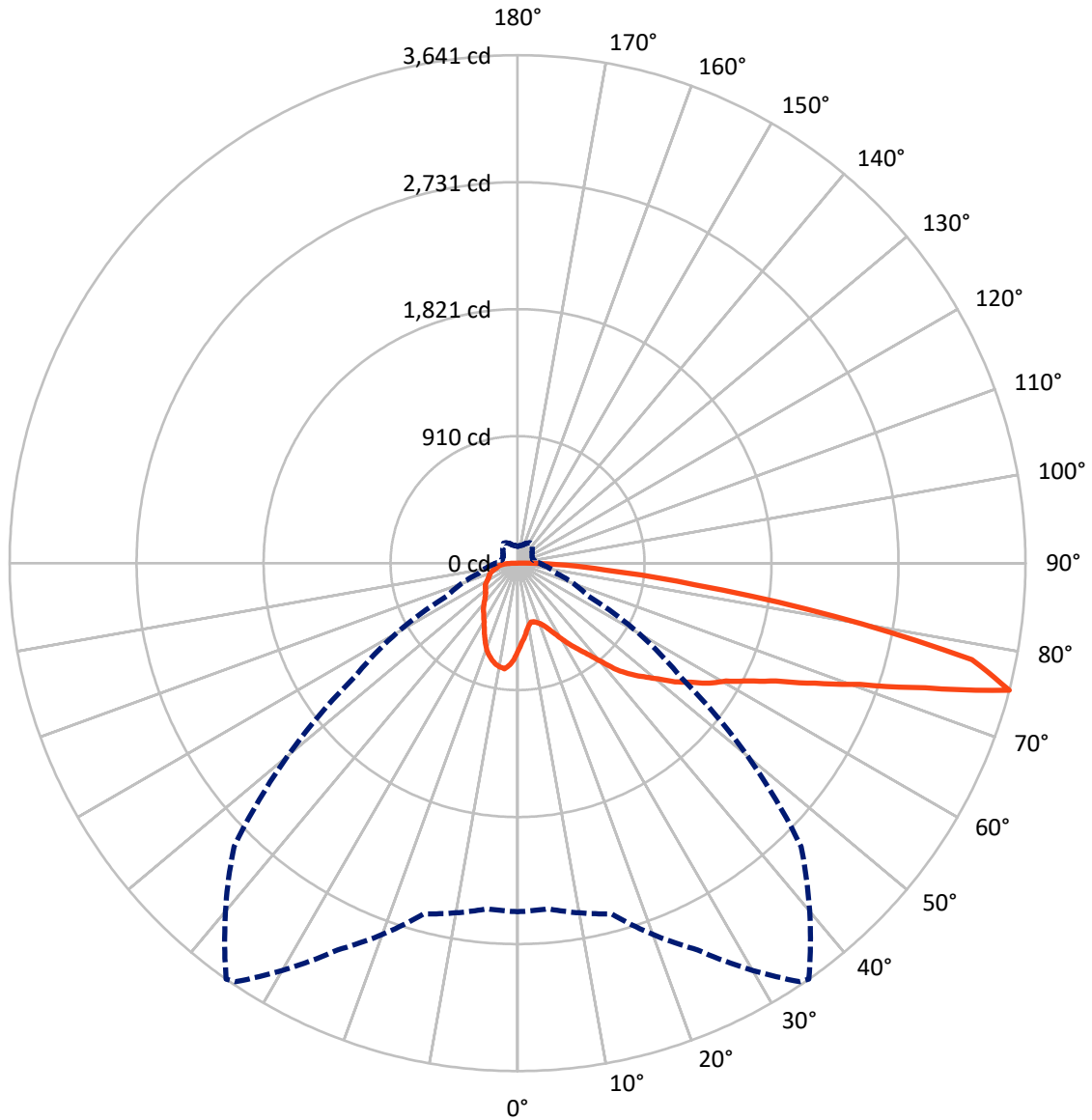
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 3.3 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral    - - - Horizontal Cone Through 75-Deg Vertical

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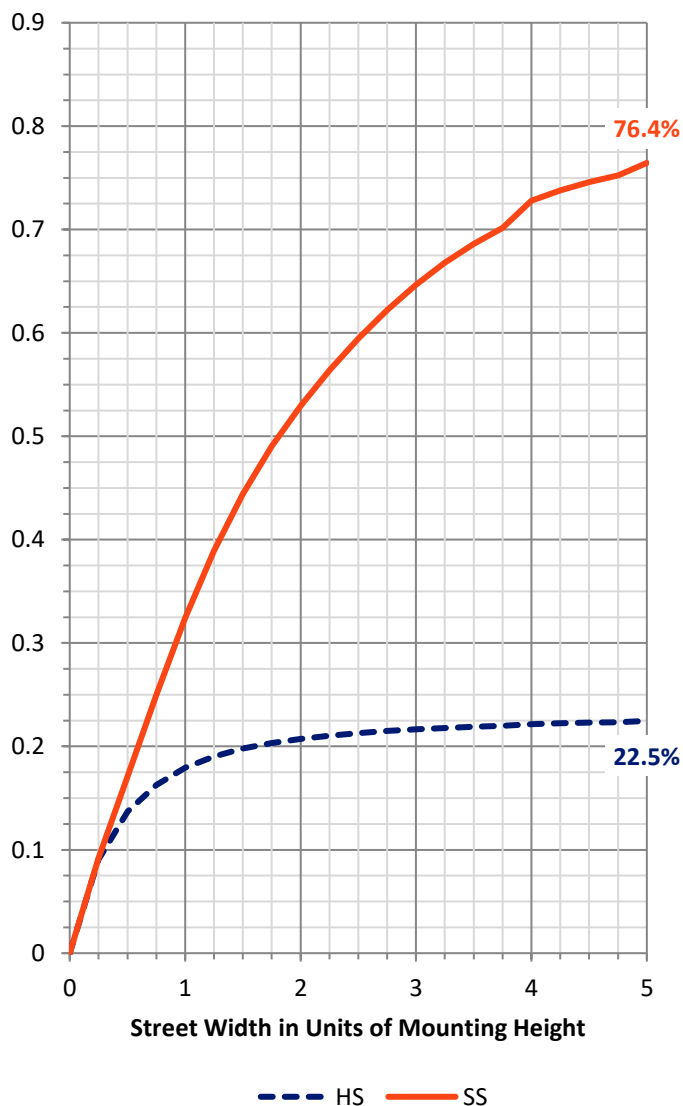
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1051.0	0.0	1051.0
	% Fixture	23.0	0.0	23.0
<b>Street Side</b>	Lumens	3522.1	0.0	3522.1
	% Fixture	77.0	0.0	77.0
<b>Total</b>	Lumens	4573.1	0.0	4573.1
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	59.7	1.3
10°-20°	173.3	3.8
20°-30°	287.5	6.3
30°-40°	426.2	9.3
40°-50°	614.5	13.4
50°-60°	845.1	18.5
60°-70°	1043.8	22.8
70°-80°	954.9	20.9
80°-90°	168.1	3.7
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°	4573.1	100.0
0°-180°	4573.1	100.0



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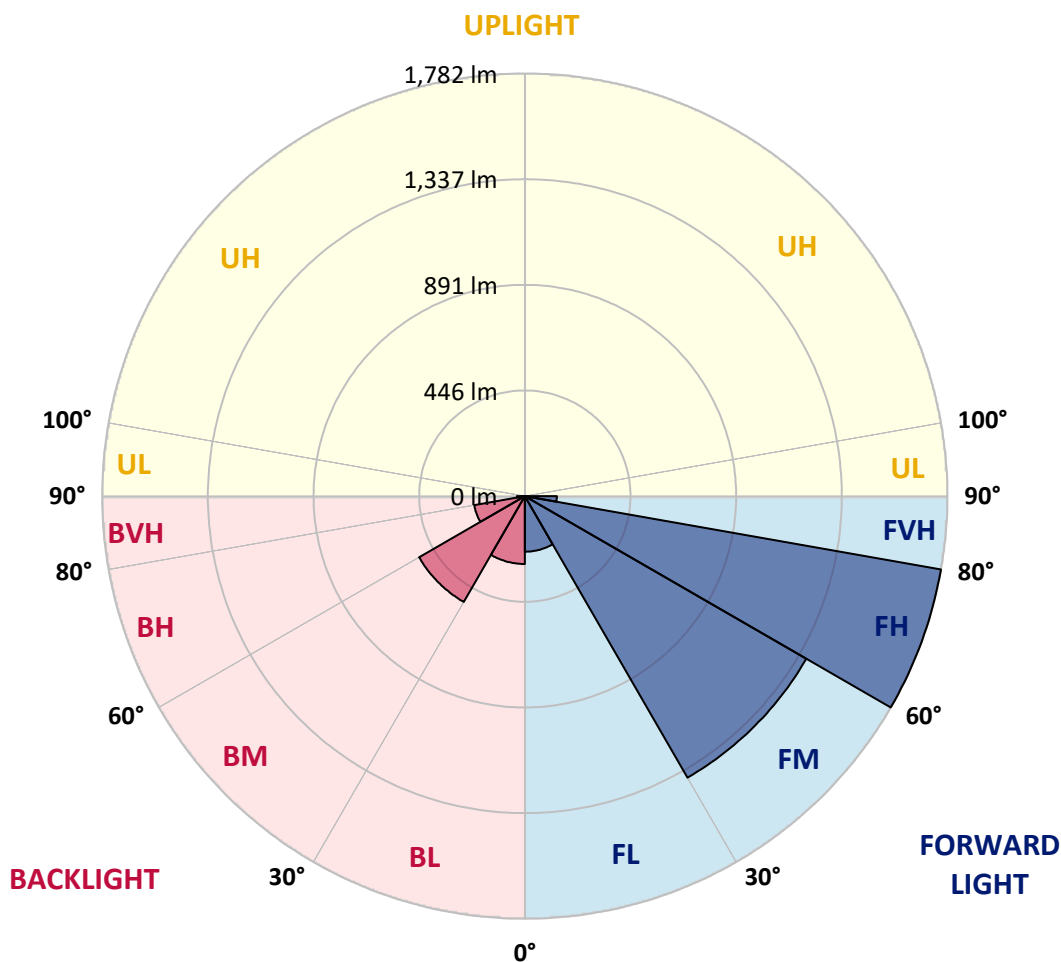
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	234.4	5.1			
FM (30°-60°)	1370.7	30.0			
FH (60°-80°)	1782.0	39.0			G1/1800
FVH (80°-90°)	134.9	3.0			G2/225
BL (0°-30°)	286.1	6.3	B1/500		
BM (30°-60°)	515.0	11.3	B1/1000		
BH (60°-80°)	216.7	4.7	B1/500		G1/500
BVH (80°-90°)	33.2	0.7			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G2**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	626.5	626.5	626.5	626.5	626.5	626.5	626.5	626.5	626.5	626.5	626.5
2.5°	567.6	562.5	567.6	571.0	571.0	571.0	576.0	591.2	601.3	608.0	619.8
5°	508.6	510.3	513.7	522.1	527.2	530.5	539.0	557.5	572.6	594.5	619.8
7.5°	456.4	459.8	464.9	473.3	485.1	483.4	501.9	527.2	555.8	584.4	621.5
10°	429.5	436.2	437.9	439.6	451.4	451.4	476.6	505.3	540.6	577.7	621.5
12.5°	434.5	434.5	429.5	427.8	434.5	432.9	454.7	488.4	527.2	579.4	628.2
15°	449.7	449.7	439.6	429.5	439.6	436.2	454.7	481.7	527.2	581.1	641.7
17.5°	469.9	471.6	459.8	443.0	446.3	448.0	461.5	486.7	527.2	584.4	660.2
20°	510.3	501.9	483.4	456.4	468.2	463.2	483.4	505.3	537.3	597.9	687.2
22.5°	545.7	545.7	510.3	486.7	488.4	488.4	507.0	525.5	552.4	616.4	707.4
25°	603.0	599.6	555.8	520.4	523.8	525.5	535.6	557.5	577.7	626.5	732.6
27.5°	675.4	667.0	623.2	582.8	569.3	574.3	579.4	596.2	601.3	643.4	763.0
30°	752.9	741.1	704.0	640.0	633.3	635.0	626.5	636.6	629.9	670.3	793.3
32.5°	801.7	801.7	766.3	719.2	700.6	700.6	672.0	678.8	678.8	695.6	847.2
35°	843.8	840.4	816.9	781.5	769.7	763.0	734.3	744.4	727.6	744.4	923.0
37.5°	907.8	897.7	887.6	864.0	840.4	835.4	820.2	827.0	803.4	795.0	1008.9
40°	981.9	976.9	966.8	956.7	933.1	931.4	914.5	921.3	896.0	864.0	1094.8
42.5°	1091.4	1076.2	1044.2	1035.8	1040.9	1047.6	1040.9	1029.1	983.6	943.2	1187.4
45°	1200.9	1177.3	1116.7	1103.2	1141.9	1136.9	1165.5	1160.4	1086.3	1022.3	1285.1
47.5°	1271.6	1251.4	1202.6	1194.1	1211.0	1217.7	1303.6	1288.5	1170.6	1094.8	1379.4
50°	1322.1	1323.8	1259.8	1281.7	1303.6	1303.6	1411.4	1409.7	1273.3	1184.0	1502.4
52.5°	1396.2	1372.7	1345.7	1365.9	1396.2	1413.1	1546.1	1509.1	1337.3	1259.8	1640.5
55°	1435.0	1424.9	1401.3	1436.7	1500.7	1509.1	1650.6	1621.9	1409.7	1349.1	1781.9
57.5°	1450.1	1458.6	1497.3	1512.5	1601.7	1623.6	1744.9	1704.5	1477.1	1460.2	1891.4
60°	1517.5	1505.7	1557.9	1618.6	1704.5	1716.3	1862.8	1775.2	1542.8	1532.7	1926.8
62.5°	1653.9	1623.6	1652.3	1724.7	1844.3	1859.4	1987.4	1869.5	1571.4	1581.5	1925.1
65°	1852.7	1830.8	1788.7	1845.9	2014.4	2036.3	2133.9	1950.4	1563.0	1564.7	1788.7
67.5°	2086.8	2051.4	2007.6	2043.0	2248.5	2299.0	2312.5	1985.7	1504.0	1470.4	1455.2
70°	2292.3	2268.7	2240.1	2300.7	2587.0	2605.5	2534.8	1963.8	1340.7	1180.7	970.1
72.5°	2484.3	2472.5	2489.3	2716.7	3045.1	3056.9	2743.6	1825.7	1059.4	715.8	451.4
75°	2499.4	2487.6	2603.9	3060.3	3619.5	3641.4	2873.3	1431.6	559.2	291.4	190.3
77.5°	1692.7	1728.0	1945.3	2679.6	3324.7	3329.8	2349.5	665.3	230.7	171.8	133.1
80°	416.0	461.5	732.6	1386.1	2241.7	2297.3	1286.8	224.0	151.6	131.4	99.4
82.5°	151.6	165.1	298.1	626.5	1259.8	1281.7	449.7	121.3	109.5	101.1	72.4
85°	72.4	74.1	141.5	308.2	636.6	629.9	161.7	72.4	79.2	69.1	43.8
87.5°	30.3	30.3	62.3	143.2	281.3	272.8	52.2	33.7	45.5	40.4	21.9
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°	626.5	626.5	626.5	626.5	626.5	626.5	626.5	626.5	626.5	626.5	626.5
2.5°	628.2	631.6	645.1	655.2	665.3	673.7	687.2	687.2	695.6	695.6	695.6
5°	626.5	645.1	667.0	690.5	705.7	720.9	734.3	736.0	741.1	747.8	749.5
7.5°	633.3	651.8	687.2	720.9	739.4	746.1	763.0	757.9	757.9	757.9	763.0
10°	646.8	667.0	715.8	746.1	759.6	761.3	756.2	752.9	742.8	739.4	734.3
12.5°	656.9	692.2	741.1	764.6	759.6	754.5	742.8	725.9	714.1	710.8	710.8
15°	682.1	717.5	763.0	771.4	763.0	736.0	720.9	702.3	692.2	677.1	683.8
17.5°	704.0	744.4	784.9	774.8	757.9	715.8	693.9	667.0	653.5	636.6	636.6
20°	732.6	769.7	805.1	778.1	741.1	695.6	660.2	626.5	608.0	591.2	594.5
22.5°	764.6	798.3	816.9	764.6	715.8	663.6	614.8	582.8	559.2	549.1	552.4
25°	789.9	827.0	823.6	742.8	685.5	623.2	569.3	539.0	533.9	523.8	523.8
27.5°	821.9	860.7	818.5	715.8	635.0	559.2	525.5	513.7	513.7	508.6	512.0
30°	864.0	891.0	806.8	677.1	571.0	501.9	485.1	491.8	503.6	498.5	500.2
32.5°	933.1	929.7	796.7	633.3	503.6	446.3	458.1	471.6	481.7	486.7	490.1
35°	1000.4	978.5	784.9	574.3	441.3	419.4	429.5	444.6	463.2	468.2	469.9
37.5°	1067.8	1029.1	764.6	501.9	402.5	395.8	405.9	414.3	429.5	432.9	436.2
40°	1138.6	1062.8	729.3	431.2	370.5	370.5	377.3	379.0	387.4	392.4	395.8
42.5°	1200.9	1094.8	665.3	365.5	336.9	348.6	350.3	347.0	340.2	343.6	345.3
45°	1276.7	1130.1	591.2	318.3	311.6	326.7	330.1	316.6	304.8	298.1	294.7
47.5°	1350.8	1167.2	527.2	279.6	288.0	311.6	311.6	296.4	276.2	259.4	252.6
50°	1418.1	1204.2	475.0	256.0	264.4	299.8	303.2	274.5	252.6	232.4	229.1
52.5°	1531.0	1266.6	421.1	237.5	251.0	291.4	289.7	264.4	235.8	213.9	212.2
55°	1630.4	1328.9	350.3	219.0	237.5	279.6	284.6	254.3	215.6	195.4	192.0
57.5°	1702.8	1344.0	279.6	200.4	224.0	266.1	272.8	234.1	202.1	185.3	183.6
60°	1716.3	1285.1	227.4	185.3	205.5	247.6	252.6	222.3	192.0	178.5	175.2
62.5°	1653.9	1172.2	193.7	171.8	190.3	229.1	239.2	208.8	181.9	170.1	168.4
65°	1512.5	1007.2	170.1	160.0	180.2	215.6	227.4	198.7	173.5	163.4	161.7
67.5°	1197.5	773.1	151.6	151.6	166.7	202.1	219.0	192.0	165.1	158.3	156.6
70°	783.2	464.9	138.1	139.8	156.6	190.3	208.8	183.6	155.0	153.3	149.9
72.5°	336.9	213.9	123.0	128.0	141.5	170.1	193.7	171.8	143.2	138.1	133.1
75°	155.0	129.7	111.2	114.5	126.3	149.9	175.2	158.3	133.1	124.6	119.6
77.5°	109.5	94.3	92.6	99.4	107.8	129.7	155.0	148.2	123.0	116.2	112.8
80°	80.8	72.4	77.5	84.2	89.3	119.6	146.5	136.4	112.8	102.7	97.7
82.5°	57.3	53.9	60.6	67.4	72.4	104.4	134.7	119.6	94.3	85.9	77.5
85°	33.7	35.4	42.1	45.5	50.5	77.5	112.8	96.0	72.4	55.6	53.9
87.5°	15.2	15.2	20.2	21.9	25.3	45.5	75.8	60.6	45.5	35.4	33.7
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)