

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: P671164

Luminaire Tested: **CCP-SA-2B-835-U-T4W**

Issue Date: 04/16/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P671164  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 04/16/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCP-SA-2B-835-U-T4W  
Description: INVUE CLEAR CURVE POLE MOUNT LIGHT SQUARE LUMINAIRE @450mA w/ T4W distribution lens  
Light Source: (32) 3500K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

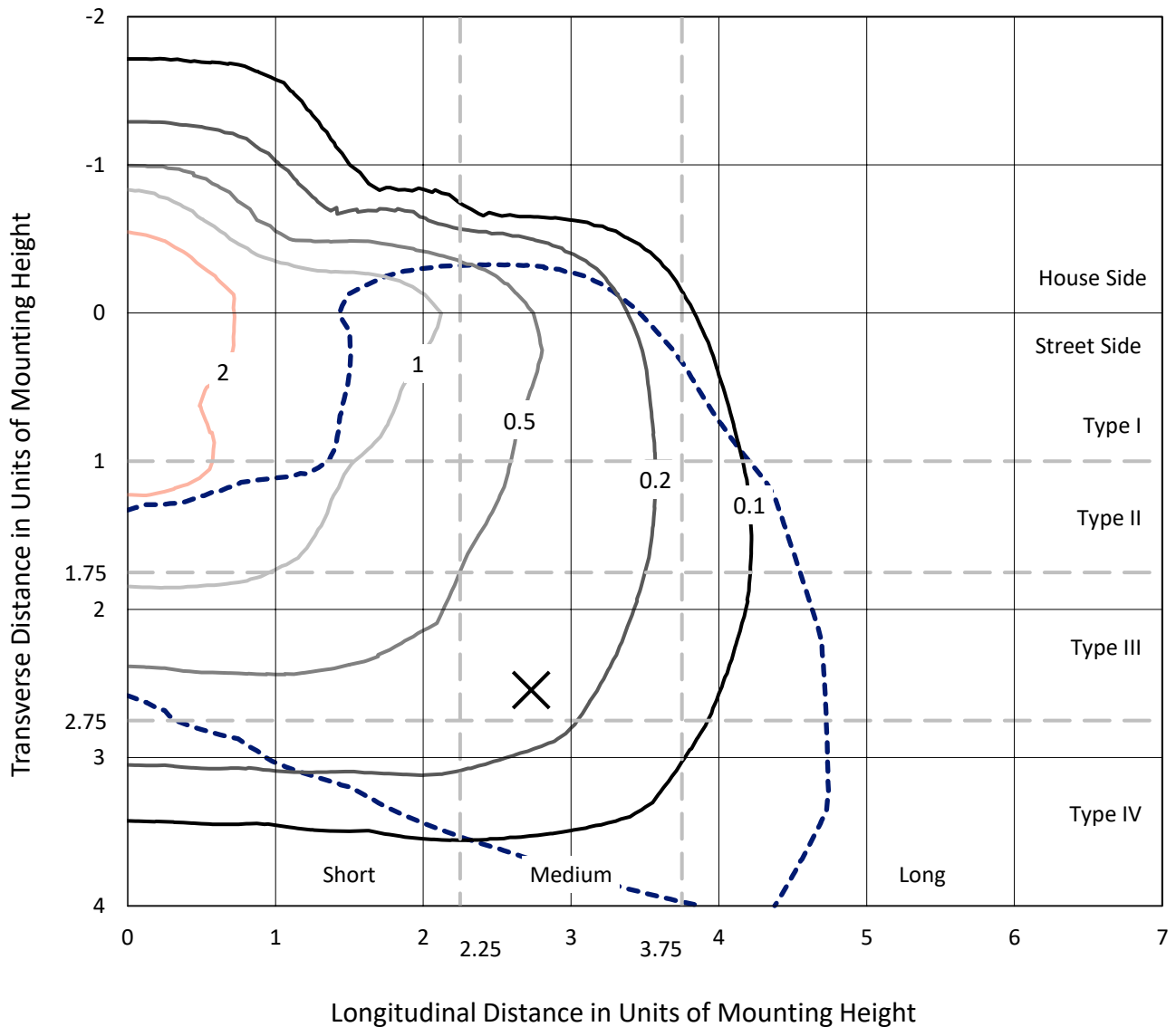
Lumens per Lamp: N/A  
Luminaire Lumens: 5740.9 lumens  
Efficiency: N/A  
Efficacy: 124.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B1 - U0 - G2

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

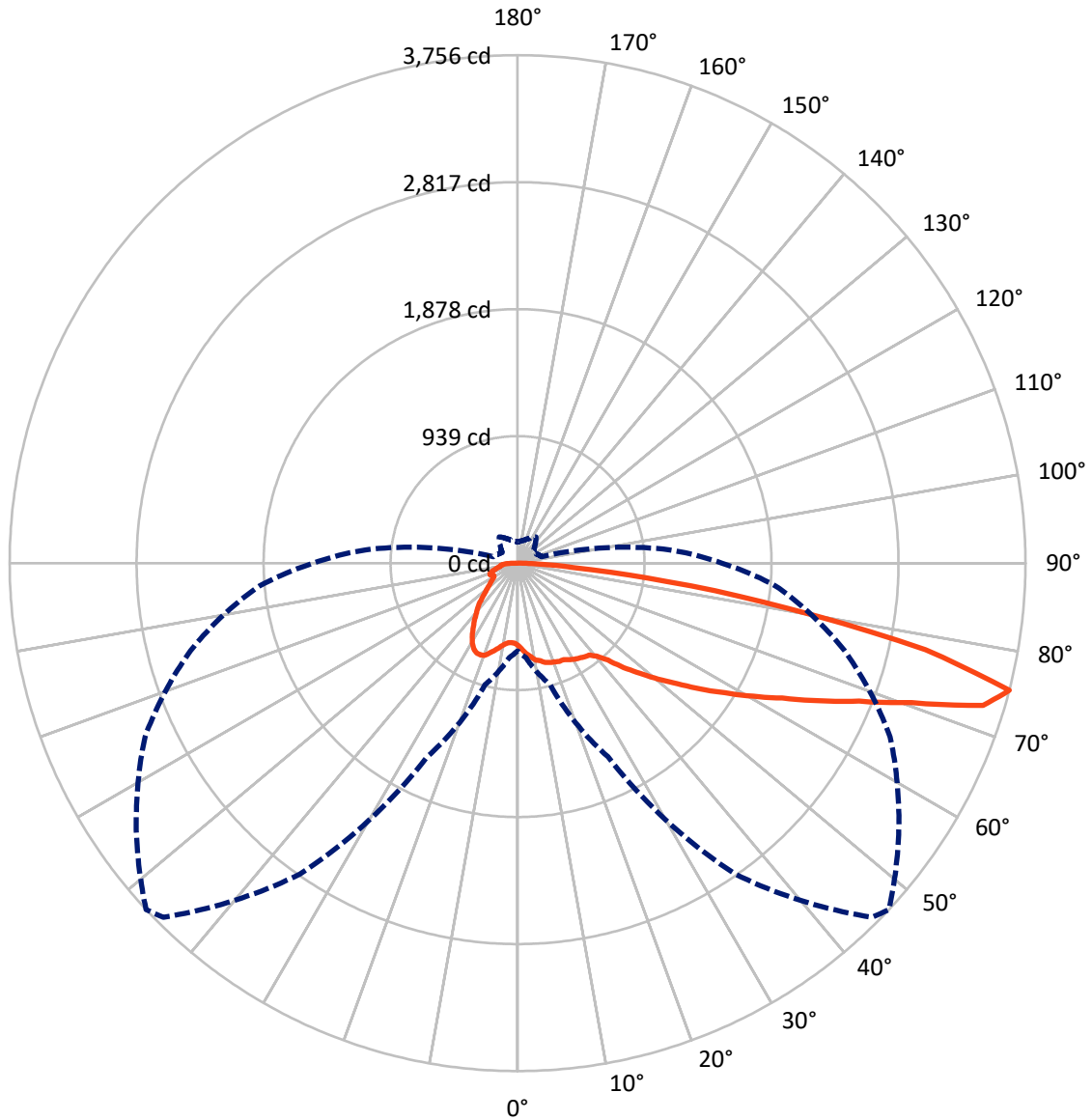
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 3.5 fc  
 Type IV - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral    - - - Horizontal Cone Through 75-Deg Vertical

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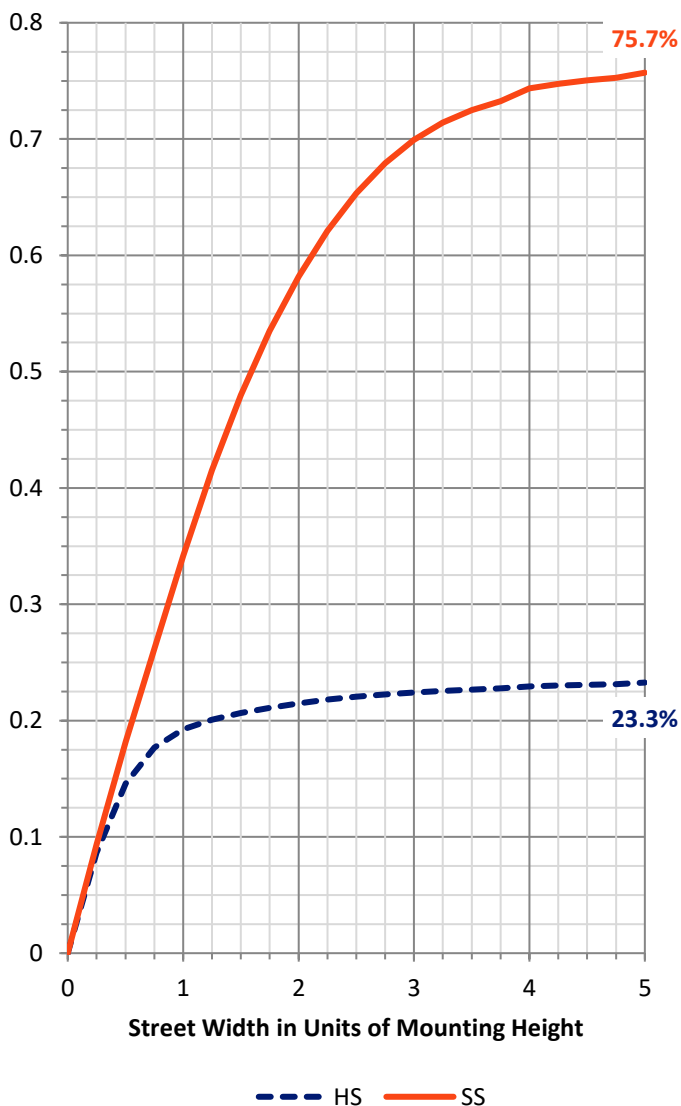
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1372.9	0.0	1372.9
	% Fixture	23.9	0.0	23.9
<b>Street Side</b>	Lumens	4368.0	0.0	4368.0
	% Fixture	76.1	0.0	76.1
<b>Total</b>	Lumens	5740.9	0.0	5740.9
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	61.6	1.1
10°-20°	204.6	3.6
20°-30°	350.5	6.1
30°-40°	490.4	8.5
40°-50°	683.8	11.9
50°-60°	1022.1	17.8
60°-70°	1473.6	25.7
70°-80°	1254.4	21.8
80°-90°	199.8	3.5
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°	5740.9	100.0
0°-180°	5740.9	100.0

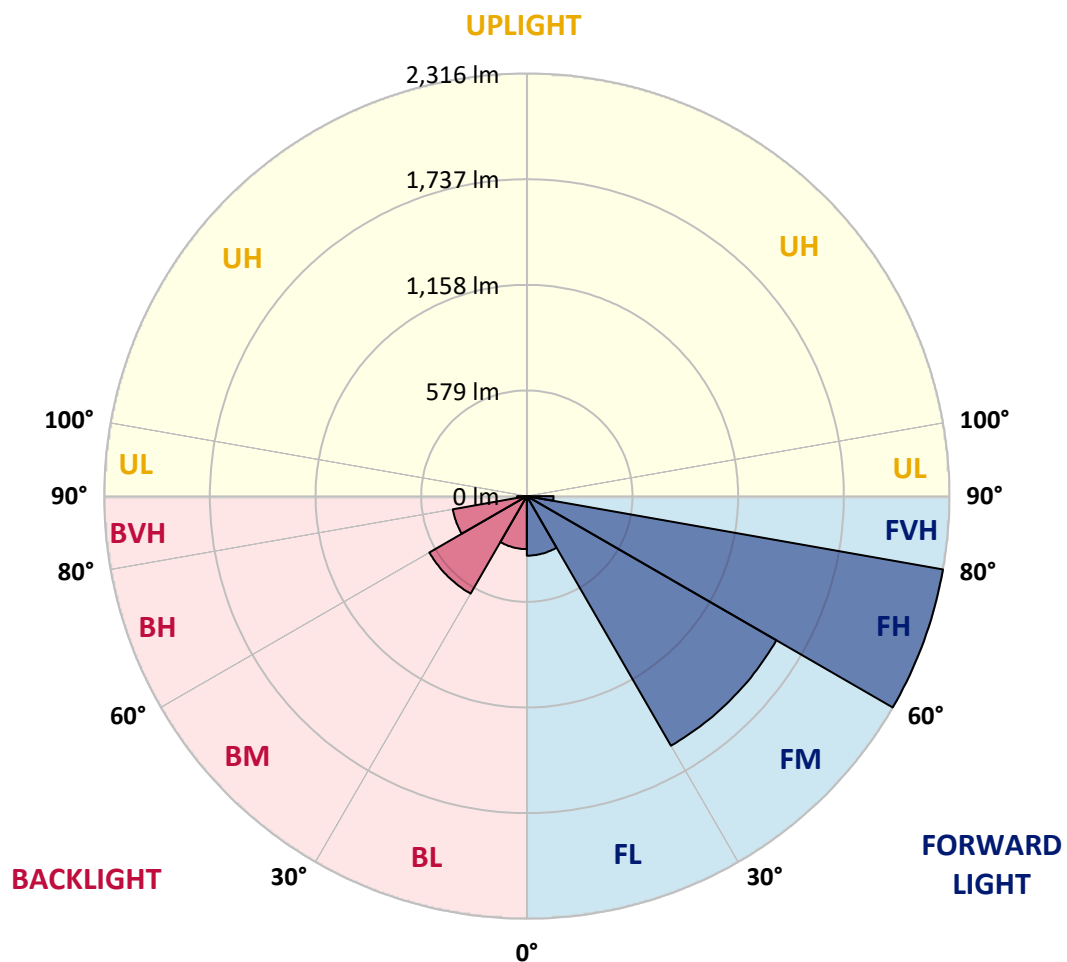


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	326.2	5.7			
FM (30°-60°)	1579.3	27.5			
FH (60°-80°)	2316.1	40.3			G2/5000
FVH (80°-90°)	146.4	2.6			G2/225
BL (0°-30°)	290.6	5.1	B1/500		
BM (30°-60°)	617.0	10.7	B1/1000		
BH (60°-80°)	411.9	7.2	B1/500		G1/500
BVH (80°-90°)	53.4	0.9			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 Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	609.6	609.6	609.6	609.6	609.6	609.6	609.6	609.6	609.6	609.6	609.6
2.5°	653.6	655.6	655.6	651.5	647.3	638.9	638.9	630.5	626.3	615.8	611.7
5°	714.3	708.0	701.7	699.6	689.2	674.5	672.4	664.0	641.0	630.5	615.8
7.5°	758.3	756.2	754.1	745.7	726.9	703.8	697.5	685.0	661.9	641.0	624.2
10°	793.9	802.3	793.9	775.0	756.2	731.1	729.0	705.9	685.0	659.8	638.9
12.5°	833.7	835.8	821.1	798.1	768.8	747.8	739.4	731.1	708.0	687.1	655.6
15°	860.9	856.7	846.3	814.8	781.3	760.4	762.5	752.0	726.9	712.2	678.7
17.5°	860.9	860.9	844.2	821.1	791.8	773.0	773.0	766.7	749.9	729.0	705.9
20°	844.2	844.2	833.7	821.1	787.6	783.4	779.2	775.0	775.0	756.2	722.7
22.5°	823.2	819.0	823.2	802.3	779.2	783.4	789.7	787.6	781.3	764.6	741.5
25°	802.3	804.4	808.6	793.9	773.0	791.8	789.7	800.2	796.0	783.4	764.6
27.5°	800.2	804.4	806.5	791.8	783.4	800.2	808.6	819.0	821.1	808.6	785.5
30°	831.6	829.5	827.4	808.6	802.3	816.9	825.3	840.0	852.6	825.3	806.5
32.5°	913.3	900.7	888.2	837.9	819.0	829.5	837.9	858.8	860.9	846.3	819.0
35°	1043.2	1034.8	992.9	904.9	852.6	842.1	850.5	865.1	869.3	858.8	837.9
37.5°	1191.9	1187.7	1129.1	1022.2	921.7	871.4	863.0	884.0	900.7	877.7	848.4
40°	1338.5	1321.8	1279.9	1175.1	1009.7	915.4	904.9	915.4	921.7	904.9	886.1
42.5°	1470.5	1451.6	1441.2	1336.4	1124.9	988.7	980.3	955.2	974.0	953.1	928.0
45°	1581.5	1577.3	1573.1	1483.1	1256.8	1108.1	1101.8	1036.9	1057.8	1041.1	1005.5
47.5°	1661.1	1680.0	1673.7	1623.4	1407.7	1235.9	1217.0	1133.2	1164.7	1147.9	1112.3
50°	1755.4	1765.9	1759.6	1726.1	1548.0	1382.5	1346.9	1261.0	1296.6	1294.5	1275.7
52.5°	1839.2	1870.6	1835.0	1832.9	1749.1	1541.7	1481.0	1399.3	1457.9	1481.0	1478.9
55°	1937.6	1962.8	1952.3	1948.1	1929.2	1696.7	1642.3	1543.8	1642.3	1675.8	1705.1
57.5°	2021.4	2019.3	2059.1	2107.3	2130.3	1874.8	1809.8	1694.6	1843.4	1881.1	1962.8
60°	2059.1	2094.7	2161.8	2283.2	2348.2	2065.4	1998.4	1906.2	2046.5	2075.9	2226.7
62.5°	2084.3	2115.7	2245.5	2450.8	2488.5	2260.2	2197.4	2105.2	2268.6	2289.5	2513.7
65°	2015.1	2044.5	2302.1	2513.7	2647.7	2469.7	2455.0	2358.7	2490.6	2503.2	2815.3
67.5°	1935.5	1966.9	2253.9	2593.3	2859.3	2748.3	2725.2	2610.0	2710.6	2695.9	3045.7
70°	1795.2	1837.1	2130.3	2662.4	3093.9	3137.9	3091.8	2928.4	2938.9	2800.6	3056.2
72.5°	1367.9	1395.1	1667.4	2388.0	3202.8	3678.3	3598.7	3272.0	3152.6	2821.6	2698.0
75°	649.4	699.6	930.1	1579.4	2806.9	3703.5	3755.8	3441.6	3039.4	2503.2	1912.5
77.5°	188.5	188.5	282.8	670.3	1759.6	2985.0	3083.4	2922.1	2507.4	1853.8	1005.5
80°	102.6	108.9	148.7	236.7	773.0	1883.2	2025.6	1937.6	1476.8	733.2	259.7
82.5°	58.7	60.7	98.5	142.4	351.9	1024.3	1108.1	1005.5	561.4	222.0	121.5
85°	33.5	35.6	56.6	94.3	209.5	377.1	410.6	356.1	226.2	148.7	60.7
87.5°	16.8	16.8	27.2	44.0	106.8	106.8	104.7	127.8	136.2	90.1	27.2
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°	609.6	609.6	609.6	609.6	609.6	609.6	609.6	609.6	609.6	609.6	609.6
2.5°	609.6	607.5	607.5	599.1	597.0	590.7	590.7	586.5	584.4	590.7	590.7
5°	611.7	601.2	599.1	590.7	592.8	588.6	597.0	592.8	590.7	590.7	588.6
7.5°	615.8	605.4	597.0	590.7	588.6	594.9	605.4	605.4	617.9	611.7	611.7
10°	626.3	620.0	609.6	605.4	605.4	611.7	624.2	632.6	643.1	643.1	636.8
12.5°	651.5	641.0	628.4	622.1	630.5	636.8	649.4	657.7	670.3	674.5	670.3
15°	670.3	659.8	655.6	651.5	657.7	666.1	676.6	685.0	699.6	703.8	701.7
17.5°	695.4	682.9	680.8	682.9	687.1	693.4	699.6	705.9	716.4	716.4	716.4
20°	708.0	703.8	701.7	708.0	716.4	724.8	720.6	716.4	714.3	718.5	716.4
22.5°	731.1	726.9	729.0	735.2	735.2	731.1	724.8	710.1	705.9	710.1	705.9
25°	752.0	747.8	747.8	743.6	741.5	726.9	714.3	701.7	687.1	693.4	691.3
27.5°	773.0	770.9	770.9	754.1	733.2	708.0	691.3	676.6	668.2	678.7	672.4
30°	798.1	800.2	789.7	749.9	699.6	672.4	653.6	651.5	649.4	655.6	653.6
32.5°	821.1	823.2	806.5	743.6	674.5	622.1	603.3	605.4	615.8	626.3	636.8
35°	833.7	844.2	823.2	722.7	624.2	565.6	544.6	563.5	582.3	597.0	607.5
37.5°	856.7	884.0	848.4	699.6	580.2	515.3	500.6	506.9	530.0	553.0	563.5
40°	890.3	921.7	854.6	655.6	521.6	465.0	456.6	458.7	467.1	481.8	492.3
42.5°	948.9	982.4	860.9	599.1	462.9	433.6	410.6	404.3	398.0	398.0	395.9
45°	1034.8	1066.2	852.6	527.9	404.3	383.3	366.6	351.9	335.2	307.9	312.1
47.5°	1160.5	1185.6	858.8	465.0	349.8	333.1	320.5	303.7	278.6	249.3	247.2
50°	1351.1	1313.4	850.5	400.1	310.0	295.4	284.9	261.8	232.5	211.6	209.5
52.5°	1573.1	1497.7	842.1	345.6	276.5	263.9	255.6	230.4	203.2	192.7	190.6
55°	1841.3	1732.3	854.6	297.5	251.4	240.9	232.5	209.5	188.5	180.1	178.1
57.5°	2157.6	1985.8	923.8	259.7	224.1	219.9	217.9	199.0	180.1	173.9	171.8
60°	2455.0	2228.8	969.9	232.5	199.0	203.2	207.4	199.0	178.1	173.9	173.9
62.5°	2704.3	2429.9	896.5	209.5	186.4	199.0	217.9	211.6	203.2	207.4	203.2
65°	2924.2	2499.0	670.3	196.9	180.1	209.5	240.9	238.8	219.9	224.1	222.0
67.5°	2961.9	2415.2	437.8	186.4	176.0	230.4	270.2	245.1	207.4	207.4	201.1
70°	2804.8	2191.1	293.3	176.0	173.9	230.4	276.5	230.4	194.8	194.8	186.4
72.5°	2302.1	1751.2	226.2	165.5	159.2	205.3	261.8	217.9	182.2	178.1	163.4
75°	1512.4	1129.1	184.3	157.1	138.3	180.1	236.7	201.1	173.9	161.3	155.0
77.5°	741.5	506.9	155.0	138.3	119.4	157.1	215.8	190.6	163.4	150.8	146.6
80°	203.2	182.2	129.9	121.5	100.5	136.2	203.2	182.2	152.9	140.3	134.1
82.5°	115.2	113.1	104.7	98.5	83.8	136.2	205.3	182.2	144.5	142.4	121.5
85°	62.8	67.0	75.4	73.3	64.9	121.5	194.8	159.2	117.3	98.5	98.5
87.5°	25.1	31.4	37.7	41.9	44.0	90.1	146.6	121.5	90.1	75.4	75.4
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)