

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: P671183

Luminaire Tested: **CCP-SA-1E-850-U-T4W**

Issue Date: 04/16/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P671183  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 04/16/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCP-SA-1E-850-U-T4W  
Description: INVUE CLEAR CURVE POLE MOUNT LIGHT SQUARE LUMINAIRE @1050mA w/ T4W distribution lens  
Light Source: (16) 5000K CCT, 80 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

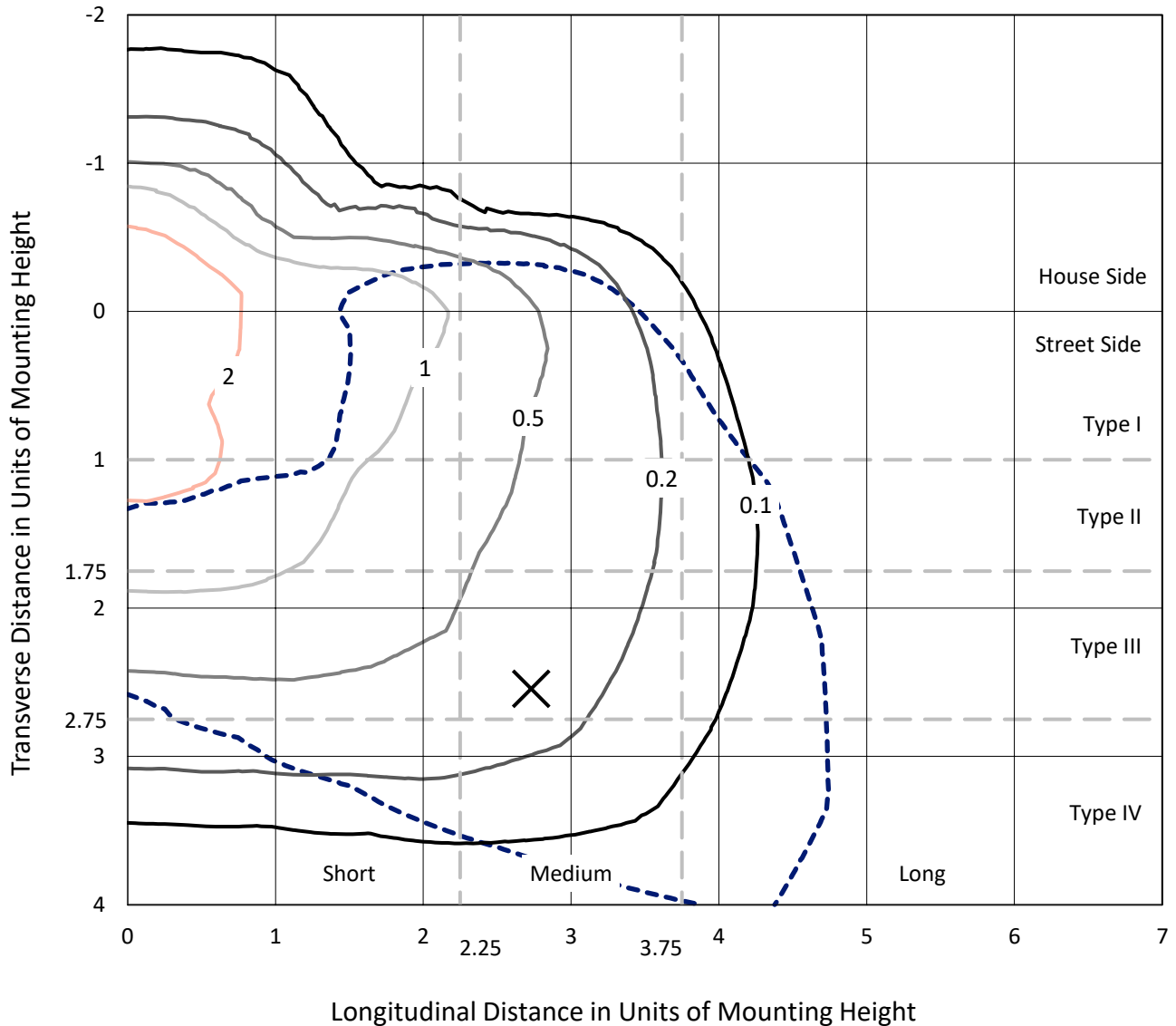
Lumens per Lamp: N/A  
Luminaire Lumens: 6018.6 lumens  
Efficiency: N/A  
Efficacy: 107.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B1 - U0 - G2

Input Watts (W): 56.1  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): 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

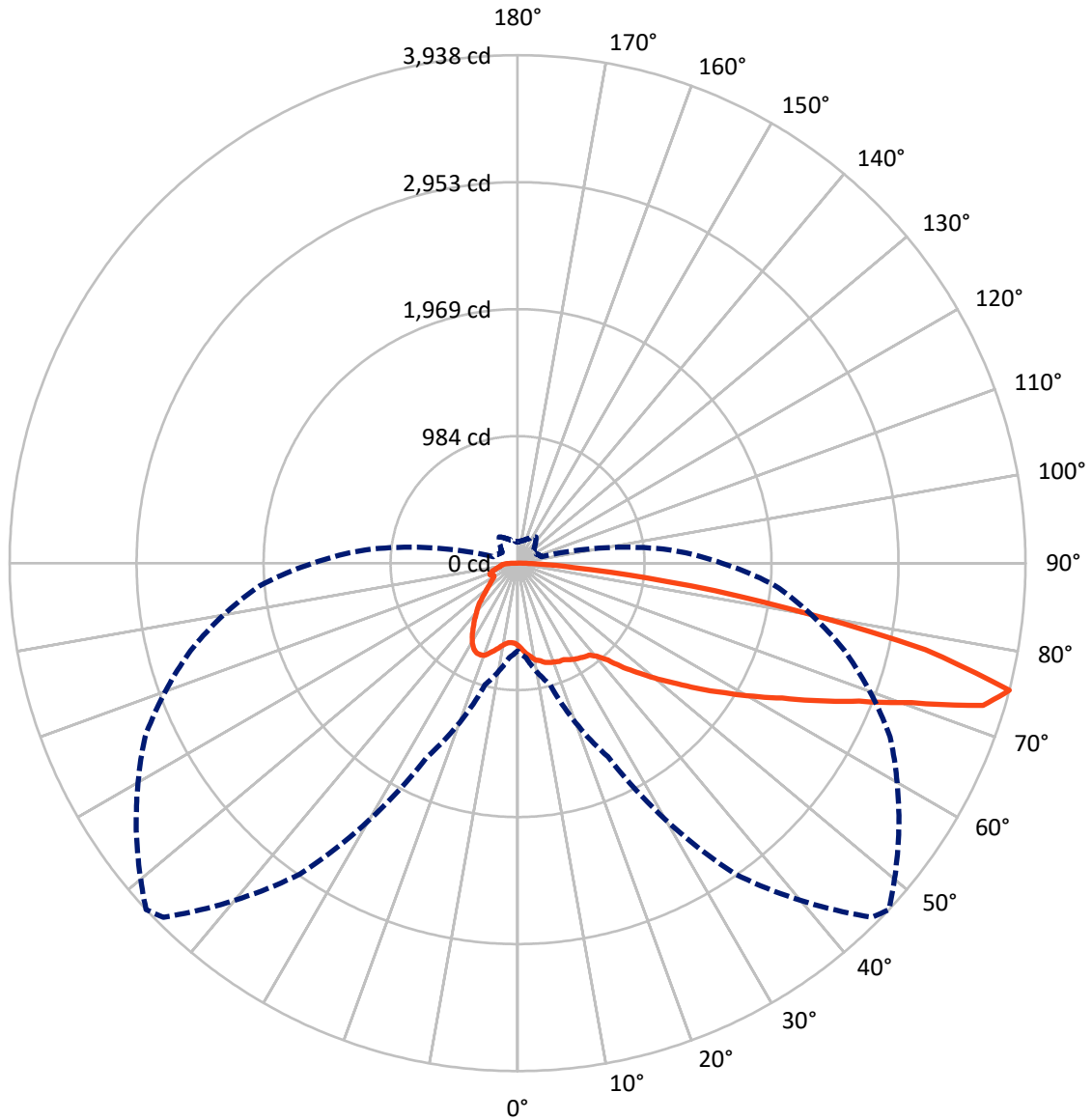
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 3.6 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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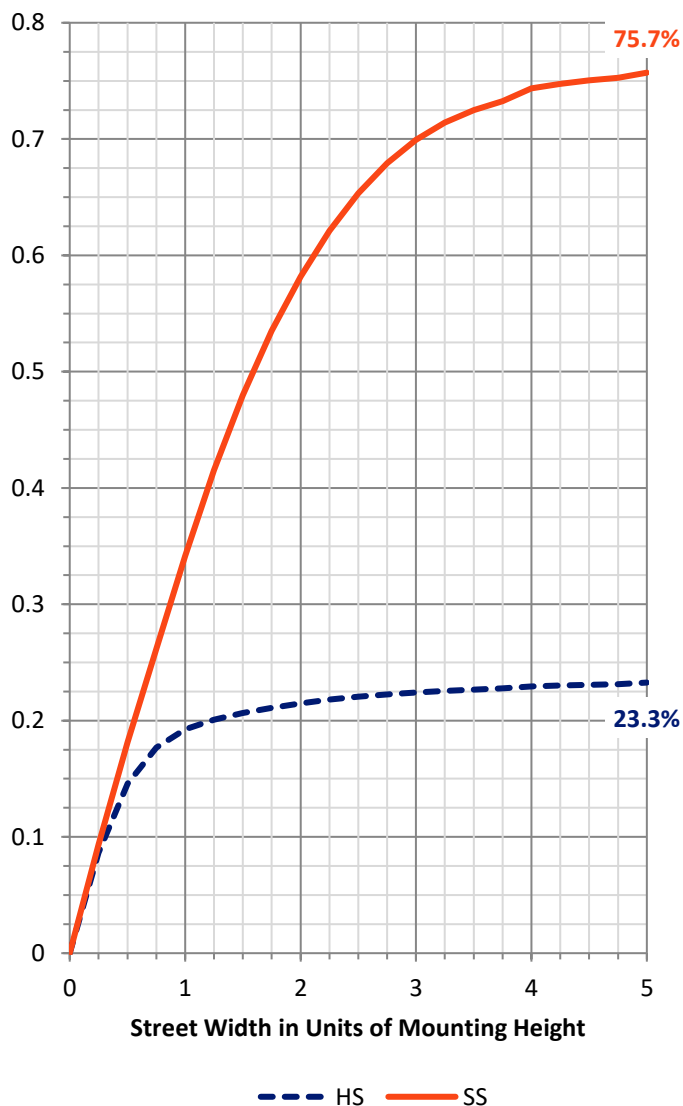
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1439.3	0.0	1439.3
	% Fixture	23.9	0.0	23.9
<b>Street Side</b>	Lumens	4579.3	0.0	4579.3
	% Fixture	76.1	0.0	76.1
<b>Total</b>	Lumens	6018.6	0.0	6018.6
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	64.6	1.1
10°-20°	214.5	3.6
20°-30°	367.5	6.1
30°-40°	514.2	8.5
40°-50°	716.9	11.9
50°-60°	1071.5	17.8
60°-70°	1544.9	25.7
70°-80°	1315.1	21.8
80°-90°	209.5	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°	6018.6	100.0
0°-180°	6018.6	100.0



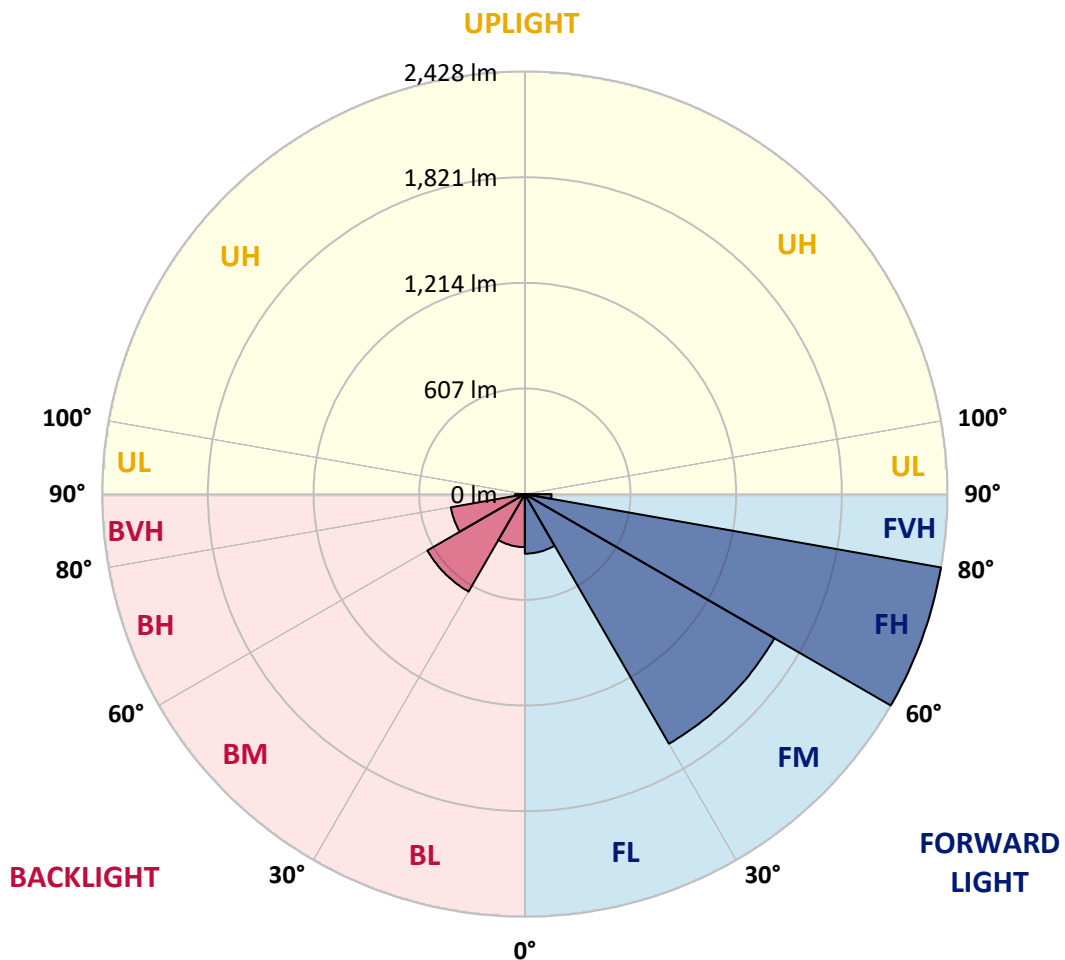
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	342.0	5.7			
FM (30°-60°)	1655.7	27.5			
FH (60°-80°)	2428.2	40.3			G2/5000
FVH (80°-90°)	153.5	2.6			G2/225
BL (0°-30°)	304.7	5.1	B1/500		
BM (30°-60°)	646.9	10.7	B1/1000		
BH (60°-80°)	431.8	7.2	B1/500		G1/500
BVH (80°-90°)	56.0	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°	639.1	639.1	639.1	639.1	639.1	639.1	639.1	639.1	639.1	639.1	639.1
2.5°	685.2	687.4	687.4	683.0	678.6	669.8	669.8	661.0	656.6	645.6	641.2
5°	748.9	742.3	735.7	733.5	722.5	707.1	704.9	696.1	672.0	661.0	645.6
7.5°	795.0	792.8	790.6	781.8	762.0	737.9	731.3	718.1	694.0	672.0	654.4
10°	832.3	841.1	832.3	812.5	792.8	766.4	764.2	740.1	718.1	691.8	669.8
12.5°	874.0	876.2	860.9	836.7	806.0	784.0	775.2	766.4	742.3	720.3	687.4
15°	902.6	898.2	887.2	854.3	819.1	797.2	799.4	788.4	762.0	746.7	711.5
17.5°	902.6	902.6	885.0	860.9	830.1	810.3	810.3	803.8	786.2	764.2	740.1
20°	885.0	885.0	874.0	860.9	825.7	821.3	816.9	812.5	812.5	792.8	757.6
22.5°	863.0	858.7	863.0	841.1	816.9	821.3	827.9	825.7	819.1	801.6	777.4
25°	841.1	843.3	847.7	832.3	810.3	830.1	827.9	838.9	834.5	821.3	801.6
27.5°	838.9	843.3	845.5	830.1	821.3	838.9	847.7	858.7	860.9	847.7	823.5
30°	871.8	869.6	867.4	847.7	841.1	856.5	865.2	880.6	893.8	865.2	845.5
32.5°	957.5	944.3	931.1	878.4	858.7	869.6	878.4	900.4	902.6	887.2	858.7
35°	1093.6	1084.9	1040.9	948.7	893.8	882.8	891.6	907.0	911.4	900.4	878.4
37.5°	1249.6	1245.2	1183.7	1071.7	966.3	913.6	904.8	926.7	944.3	920.1	889.4
40°	1403.3	1385.7	1341.8	1232.0	1058.5	959.7	948.7	959.7	966.3	948.7	928.9
42.5°	1541.6	1521.9	1510.9	1401.1	1179.3	1036.5	1027.8	1001.4	1021.2	999.2	972.9
45°	1658.0	1653.6	1649.2	1554.8	1317.6	1161.7	1155.1	1087.0	1109.0	1091.4	1054.1
47.5°	1741.5	1761.2	1754.6	1701.9	1475.7	1295.7	1275.9	1188.1	1221.0	1203.4	1166.1
50°	1840.3	1851.3	1844.7	1809.5	1622.9	1449.4	1412.1	1322.0	1359.4	1357.2	1337.4
52.5°	1928.1	1961.1	1923.7	1921.5	1833.7	1616.3	1552.6	1467.0	1528.5	1552.6	1550.4
55°	2031.4	2057.7	2046.7	2042.3	2022.6	1778.8	1721.7	1618.5	1721.7	1756.8	1787.6
57.5°	2119.2	2117.0	2158.7	2209.2	2233.4	1965.5	1897.4	1776.6	1932.5	1972.1	2057.7
60°	2158.7	2196.1	2266.3	2393.7	2461.8	2165.3	2095.0	1998.4	2145.5	2176.3	2334.4
62.5°	2185.1	2218.0	2354.2	2569.4	2608.9	2369.5	2303.7	2207.0	2378.3	2400.3	2635.3
65°	2112.6	2143.3	2413.5	2635.3	2775.8	2589.1	2573.8	2472.8	2611.1	2624.3	2951.5
67.5°	2029.2	2062.1	2363.0	2718.7	2997.6	2881.2	2857.1	2736.3	2841.7	2826.3	3193.1
70°	1882.0	1925.9	2233.4	2791.2	3243.6	3289.7	3241.4	3070.1	3081.1	2936.1	3204.0
72.5°	1434.0	1462.6	1748.1	2503.5	3357.8	3856.3	3772.8	3430.2	3305.1	2958.1	2828.5
75°	680.8	733.5	975.0	1655.8	2942.7	3882.6	3937.5	3608.1	3186.5	2624.3	2005.0
77.5°	197.6	197.6	296.5	702.7	1844.7	3129.4	3232.6	3063.5	2628.7	1943.5	1054.1
80°	107.6	114.2	155.9	248.2	810.3	1974.3	2123.6	2031.4	1548.2	768.6	272.3
82.5°	61.5	63.7	103.2	149.3	368.9	1073.9	1161.7	1054.1	588.5	232.8	127.4
85°	35.1	37.3	59.3	98.8	219.6	395.3	430.4	373.3	237.2	155.9	63.7
87.5°	17.6	17.6	28.5	46.1	112.0	112.0	109.8	134.0	142.7	94.4	28.5
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°	639.1	639.1	639.1	639.1	639.1	639.1	639.1	639.1	639.1	639.1	639.1
2.5°	639.1	636.9	636.9	628.1	625.9	619.3	619.3	614.9	612.7	619.3	619.3
5°	641.2	630.3	628.1	619.3	621.5	617.1	625.9	621.5	619.3	619.3	617.1
7.5°	645.6	634.7	625.9	619.3	617.1	623.7	634.7	634.7	647.8	641.2	641.2
10°	656.6	650.0	639.1	634.7	634.7	641.2	654.4	663.2	674.2	674.2	667.6
12.5°	683.0	672.0	658.8	652.2	661.0	667.6	680.8	689.6	702.7	707.1	702.7
15°	702.7	691.8	687.4	683.0	689.6	698.3	709.3	718.1	733.5	737.9	735.7
17.5°	729.1	715.9	713.7	715.9	720.3	726.9	733.5	740.1	751.1	751.1	751.1
20°	742.3	737.9	735.7	742.3	751.1	759.8	755.4	751.1	748.9	753.2	751.1
22.5°	766.4	762.0	764.2	770.8	770.8	766.4	759.8	744.5	740.1	744.5	740.1
25°	788.4	784.0	784.0	779.6	777.4	762.0	748.9	735.7	720.3	726.9	724.7
27.5°	810.3	808.1	808.1	790.6	768.6	742.3	724.7	709.3	700.5	711.5	704.9
30°	836.7	838.9	827.9	786.2	733.5	704.9	685.2	683.0	680.8	687.4	685.2
32.5°	860.9	863.0	845.5	779.6	707.1	652.2	632.5	634.7	645.6	656.6	667.6
35°	874.0	885.0	863.0	757.6	654.4	592.9	571.0	590.7	610.5	625.9	636.9
37.5°	898.2	926.7	889.4	733.5	608.3	540.2	524.9	531.4	555.6	579.8	590.7
40°	933.3	966.3	896.0	687.4	546.8	487.5	478.7	480.9	489.7	505.1	516.1
42.5°	994.8	1029.9	902.6	628.1	485.3	454.6	430.4	423.8	417.3	417.3	415.1
45°	1084.9	1117.8	893.8	553.4	423.8	401.9	384.3	368.9	351.4	322.8	327.2
47.5°	1216.6	1243.0	900.4	487.5	366.7	349.2	336.0	318.4	292.1	261.3	259.1
50°	1416.5	1376.9	891.6	419.4	325.0	309.6	298.7	274.5	243.8	221.8	219.6
52.5°	1649.2	1570.2	882.8	362.3	289.9	276.7	267.9	241.6	213.0	202.0	199.8
55°	1930.3	1816.1	896.0	311.8	263.5	252.5	243.8	219.6	197.6	188.9	186.7
57.5°	2261.9	2081.9	968.5	272.3	235.0	230.6	228.4	208.6	188.9	182.3	180.1
60°	2573.8	2336.6	1016.8	243.8	208.6	213.0	217.4	208.6	186.7	182.3	182.3
62.5°	2835.1	2547.4	939.9	219.6	195.4	208.6	228.4	221.8	213.0	217.4	213.0
65°	3065.7	2619.9	702.7	206.4	188.9	219.6	252.5	250.4	230.6	235.0	232.8
67.5°	3105.2	2532.1	459.0	195.4	184.5	241.6	283.3	256.9	217.4	217.4	210.8
70°	2940.5	2297.1	307.4	184.5	182.3	241.6	289.9	241.6	204.2	204.2	195.4
72.5°	2413.5	1835.9	237.2	173.5	166.9	215.2	274.5	228.4	191.1	186.7	171.3
75°	1585.6	1183.7	193.3	164.7	144.9	188.9	248.2	210.8	182.3	169.1	162.5
77.5°	777.4	531.4	162.5	144.9	125.2	164.7	226.2	199.8	171.3	158.1	153.7
80°	213.0	191.1	136.2	127.4	105.4	142.7	213.0	191.1	160.3	147.1	140.5
82.5°	120.8	118.6	109.8	103.2	87.8	142.7	215.2	191.1	151.5	149.3	127.4
85°	65.9	70.3	79.1	76.9	68.1	127.4	204.2	166.9	123.0	103.2	103.2
87.5°	26.4	32.9	39.5	43.9	46.1	94.4	153.7	127.4	94.4	79.1	79.1
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)