

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: P671011

Luminaire Tested: **CCP-SA-2D-830-U-T4FT**

Issue Date: 04/16/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P671011  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 04/16/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCP-SA-2D-830-U-T4FT  
Description: INVUE CLEAR CURVE POLE MOUNT LIGHT SQUARE LUMINAIRE @800mA w/ T4FT distribution lens  
Light Source: (32) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

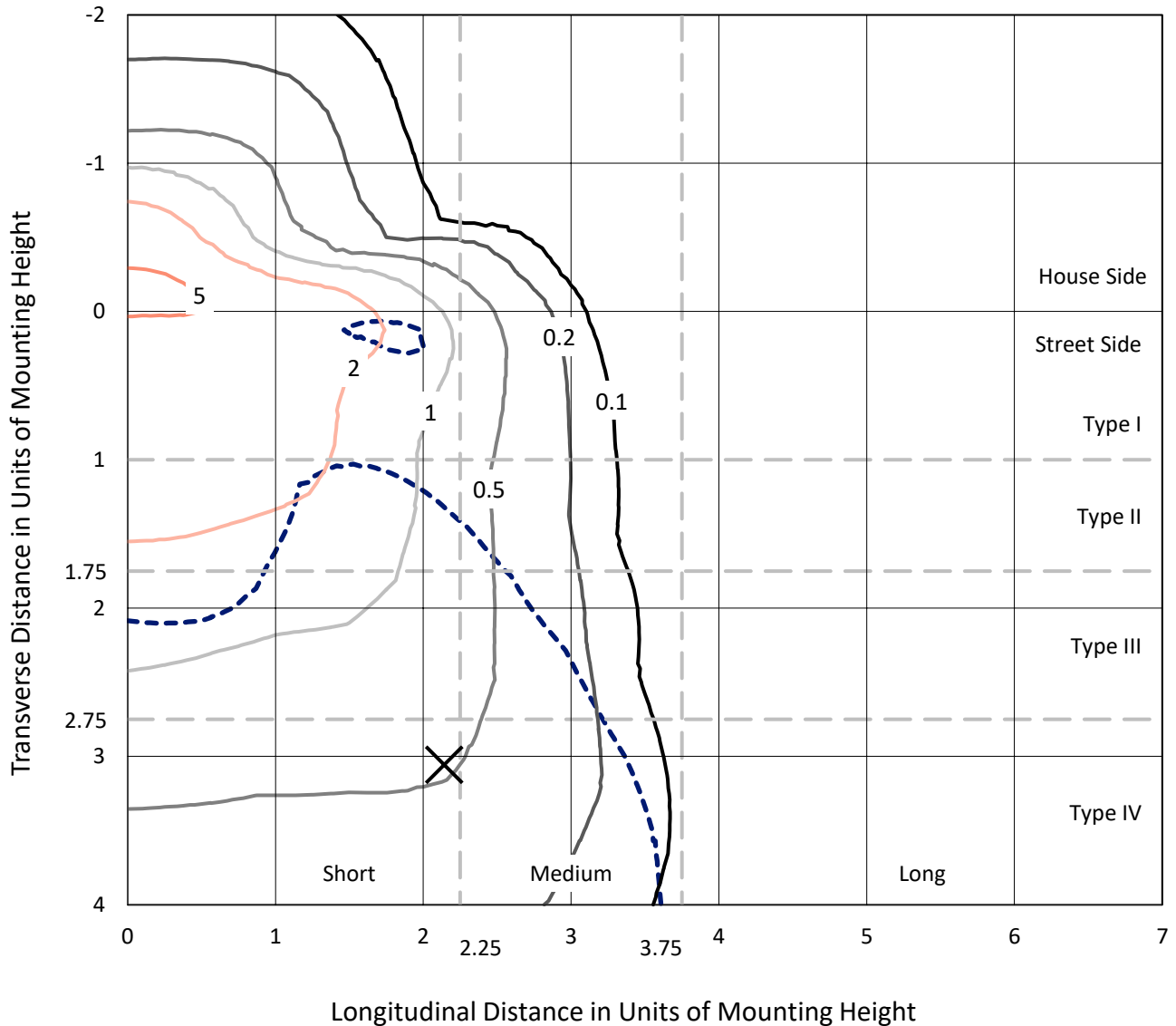
Lumens per Lamp: N/A  
Luminaire Lumens: 8856.5 lumens  
Efficiency: N/A  
Efficacy: 109.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G3

Input Watts (W): 80.8  
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

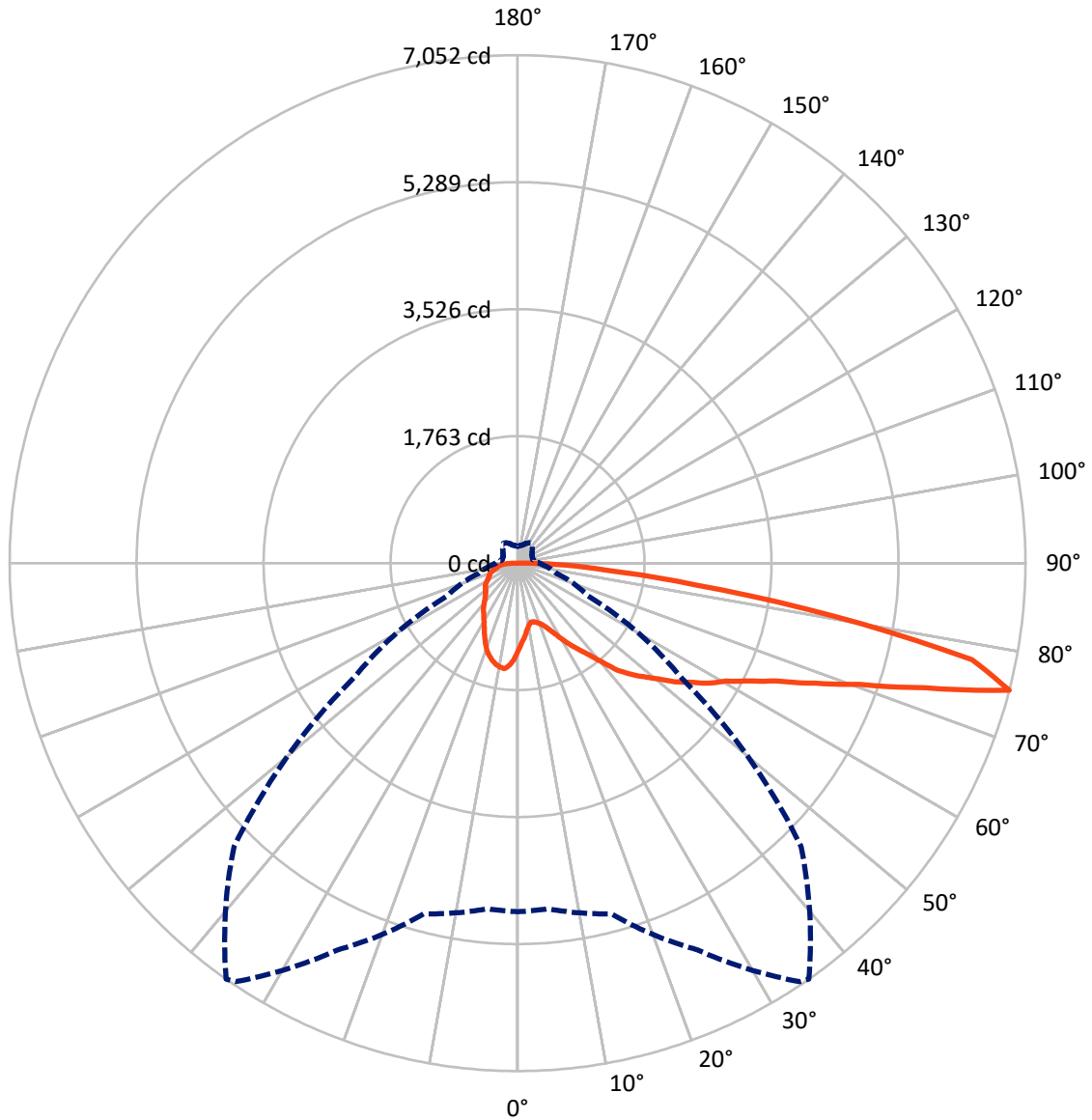
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 6.4 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	2035.5	0.0	2035.5
	% Fixture	23.0	0.0	23.0
<b>Street Side</b>	Lumens	6821.1	0.0	6821.1
	% Fixture	77.0	0.0	77.0
<b>Total</b>	Lumens	8856.5	0.0	8856.5
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	115.6	1.3
10°-20°	335.6	3.8
20°-30°	556.8	6.3
30°-40°	825.4	9.3
40°-50°	1190.1	13.4
50°-60°	1636.6	18.5
60°-70°	2021.5	22.8
70°-80°	1849.4	20.9
80°-90°	325.6	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°	8856.5	100.0
0°-180°	8856.5	100.0



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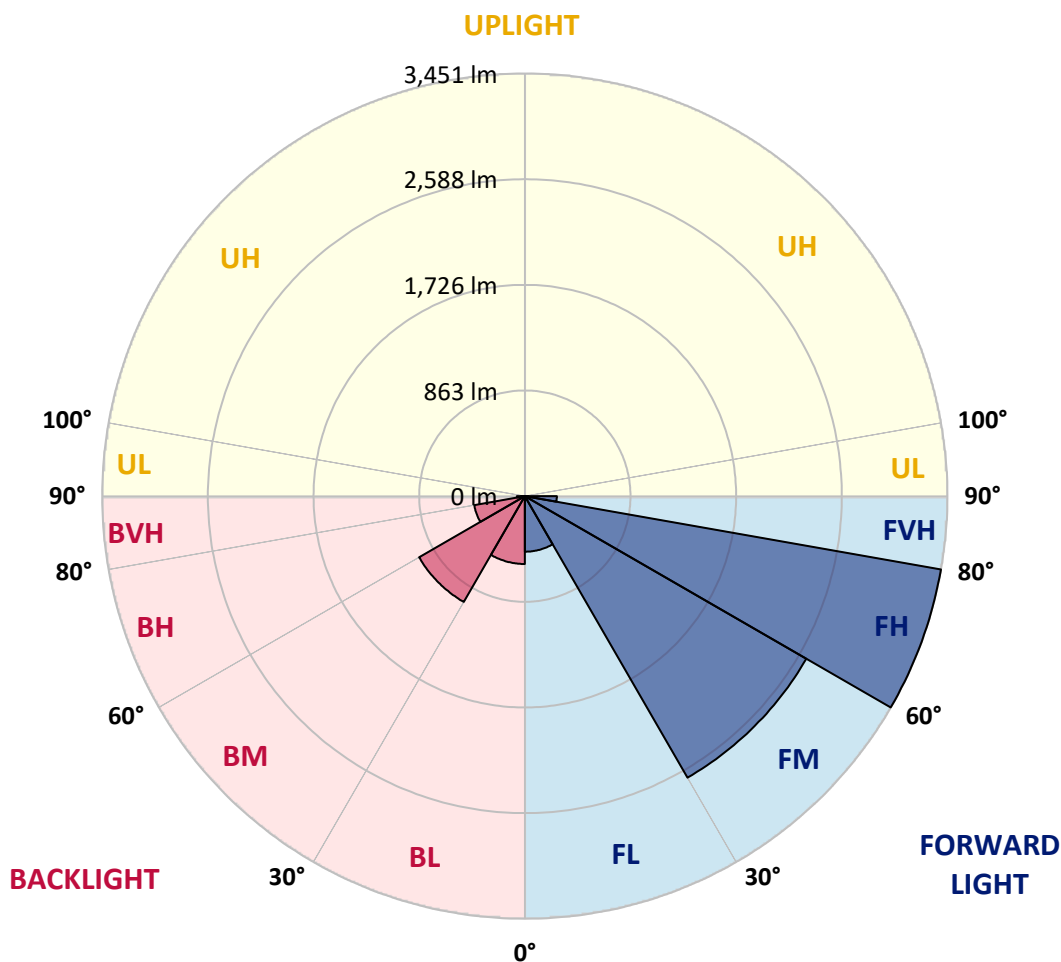
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	453.9	5.1			
FM (30°-60°)	2654.6	30.0			
FH (60°-80°)	3451.2	39.0			G2/5000
FVH (80°-90°)	261.3	3.0			G3/500
BL (0°-30°)	554.0	6.3	B2/1000		
BM (30°-60°)	997.4	11.3	B1/1000		
BH (60°-80°)	419.7	4.7	B1/500		G1/500
BVH (80°-90°)	64.3	0.7			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G3**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	1213.4	1213.4	1213.4	1213.4	1213.4	1213.4	1213.4	1213.4	1213.4	1213.4	1213.4
2.5°	1099.2	1089.4	1099.2	1105.8	1105.8	1105.8	1115.5	1144.9	1164.5	1177.5	1200.3
5°	985.1	988.3	994.9	1011.2	1020.9	1027.5	1043.8	1079.7	1109.0	1151.4	1200.3
7.5°	884.0	890.5	900.3	916.6	939.4	936.1	972.0	1020.9	1076.4	1131.9	1203.6
10°	831.8	844.8	848.1	851.3	874.2	874.2	923.1	978.5	1047.0	1118.8	1203.6
12.5°	841.5	841.5	831.8	828.5	841.5	838.3	880.7	945.9	1020.9	1122.1	1216.7
15°	870.9	870.9	851.3	831.8	851.3	844.8	880.7	932.9	1020.9	1125.3	1242.8
17.5°	910.0	913.3	890.5	857.9	864.4	867.6	893.7	942.7	1020.9	1131.9	1278.6
20°	988.3	972.0	936.1	884.0	906.8	897.0	936.1	978.5	1040.5	1157.9	1330.8
22.5°	1056.8	1056.8	988.3	942.7	945.9	945.9	981.8	1017.7	1069.9	1193.8	1370.0
25°	1167.7	1161.2	1076.4	1007.9	1014.4	1017.7	1037.3	1079.7	1118.8	1213.4	1418.9
27.5°	1308.0	1291.7	1206.9	1128.6	1102.5	1112.3	1122.1	1154.7	1164.5	1246.0	1477.6
30°	1458.0	1435.2	1363.4	1239.5	1226.4	1229.7	1213.4	1233.0	1219.9	1298.2	1536.3
32.5°	1552.6	1552.6	1484.1	1392.8	1356.9	1356.9	1301.5	1314.5	1314.5	1347.1	1640.7
35°	1634.2	1627.6	1582.0	1513.5	1490.7	1477.6	1422.2	1441.7	1409.1	1441.7	1787.5
37.5°	1758.1	1738.5	1719.0	1673.3	1627.6	1617.9	1588.5	1601.6	1555.9	1539.6	1953.8
40°	1901.6	1891.9	1872.3	1852.7	1807.0	1803.8	1771.2	1784.2	1735.3	1673.3	2120.2
42.5°	2113.7	2084.3	2022.3	2006.0	2015.8	2028.9	2015.8	1993.0	1904.9	1826.6	2299.6
45°	2325.7	2280.0	2162.6	2136.5	2211.5	2201.7	2257.2	2247.4	2103.9	1979.9	2488.8
47.5°	2462.7	2423.5	2328.9	2312.6	2345.2	2358.3	2524.6	2495.3	2267.0	2120.2	2671.4
50°	2560.5	2563.8	2439.8	2482.2	2524.6	2524.6	2733.4	2730.1	2465.9	2293.1	2909.5
52.5°	2704.0	2658.4	2606.2	2645.3	2704.0	2736.7	2994.3	2922.6	2589.9	2439.8	3177.0
55°	2779.1	2759.5	2713.8	2782.3	2906.3	2922.6	3196.6	3141.1	2730.1	2612.7	3451.0
57.5°	2808.4	2824.7	2899.8	2929.1	3102.0	3144.4	3379.2	3301.0	2860.6	2828.0	3663.0
60°	2938.9	2916.1	3017.2	3134.6	3301.0	3323.8	3607.6	3438.0	2987.8	2968.3	3731.5
62.5°	3203.1	3144.4	3199.8	3340.1	3571.7	3601.0	3848.9	3620.6	3043.3	3062.8	3728.3
65°	3588.0	3545.6	3464.1	3575.0	3901.1	3943.5	4132.7	3777.2	3027.0	3030.2	3464.1
67.5°	4041.4	3972.9	3888.1	3956.6	4354.5	4452.4	4478.5	3845.7	2912.8	2847.6	2818.2
70°	4439.3	4393.7	4338.2	4455.6	5010.2	5046.0	4909.0	3803.3	2596.4	2286.5	1878.8
72.5°	4811.2	4788.3	4821.0	5261.3	5897.4	5920.2	5313.5	3535.8	2051.7	1386.3	874.2
75°	4840.5	4817.7	5042.8	5926.7	7009.6	7052.1	5564.7	2772.5	1082.9	564.3	368.6
77.5°	3278.1	3346.6	3767.4	5189.6	6438.8	6448.6	4550.2	1288.4	446.9	332.7	257.7
80°	805.7	893.7	1418.9	2684.5	4341.5	4449.1	2492.0	433.8	293.6	254.4	192.4
82.5°	293.6	319.7	577.3	1213.4	2439.8	2482.2	870.9	234.9	212.0	195.7	140.3
85°	140.3	143.5	274.0	596.9	1233.0	1219.9	313.1	140.3	153.3	133.7	84.8
87.5°	58.7	58.7	120.7	277.3	544.7	528.4	101.1	65.2	88.1	78.3	42.4
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°	1213.4	1213.4	1213.4	1213.4	1213.4	1213.4	1213.4	1213.4	1213.4	1213.4	1213.4
2.5°	1216.7	1223.2	1249.3	1268.8	1288.4	1304.7	1330.8	1330.8	1347.1	1347.1	1347.1
5°	1213.4	1249.3	1291.7	1337.3	1366.7	1396.1	1422.2	1425.4	1435.2	1448.2	1451.5
7.5°	1226.4	1262.3	1330.8	1396.1	1431.9	1445.0	1477.6	1467.8	1467.8	1467.8	1477.6
10°	1252.5	1291.7	1386.3	1445.0	1471.1	1474.3	1464.6	1458.0	1438.5	1431.9	1422.2
12.5°	1272.1	1340.6	1435.2	1480.9	1471.1	1461.3	1438.5	1405.8	1383.0	1376.5	1376.5
15°	1321.0	1389.5	1477.6	1493.9	1477.6	1425.4	1396.1	1360.2	1340.6	1311.3	1324.3
17.5°	1363.4	1441.7	1520.0	1500.4	1467.8	1386.3	1343.9	1291.7	1265.6	1233.0	1233.0
20°	1418.9	1490.7	1559.1	1507.0	1435.2	1347.1	1278.6	1213.4	1177.5	1144.9	1151.4
22.5°	1480.9	1546.1	1582.0	1480.9	1386.3	1285.2	1190.6	1128.6	1082.9	1063.4	1069.9
25°	1529.8	1601.6	1595.0	1438.5	1327.6	1206.9	1102.5	1043.8	1034.0	1014.4	1014.4
27.5°	1591.8	1666.8	1585.2	1386.3	1229.7	1082.9	1017.7	994.9	994.9	985.1	991.6
30°	1673.3	1725.5	1562.4	1311.3	1105.8	972.0	939.4	952.5	975.3	965.5	968.8
32.5°	1807.0	1800.5	1542.8	1226.4	975.3	864.4	887.2	913.3	932.9	942.7	949.2
35°	1937.5	1895.1	1520.0	1112.3	854.6	812.2	831.8	861.1	897.0	906.8	910.0
37.5°	2068.0	1993.0	1480.9	972.0	779.6	766.5	786.1	802.4	831.8	838.3	844.8
40°	2205.0	2058.2	1412.4	835.0	717.6	717.6	730.6	733.9	750.2	760.0	766.5
42.5°	2325.7	2120.2	1288.4	707.8	652.4	675.2	678.5	671.9	658.9	665.4	668.7
45°	2472.5	2188.7	1144.9	616.5	603.4	632.8	639.3	613.2	590.4	577.3	570.8
47.5°	2616.0	2260.4	1020.9	541.5	557.8	603.4	603.4	574.1	534.9	502.3	489.3
50°	2746.5	2332.2	919.8	495.8	512.1	580.6	587.1	531.7	489.3	450.1	443.6
52.5°	2965.0	2452.9	815.5	459.9	486.0	564.3	561.0	512.1	456.7	414.3	411.0
55°	3157.4	2573.6	678.5	424.0	459.9	541.5	551.2	492.5	417.5	378.4	371.8
57.5°	3297.7	2602.9	541.5	388.2	433.8	515.4	528.4	453.4	391.4	358.8	355.5
60°	3323.8	2488.8	440.3	358.8	397.9	479.5	489.3	430.6	371.8	345.8	339.2
62.5°	3203.1	2270.2	375.1	332.7	368.6	443.6	463.2	404.5	352.3	329.4	326.2
65°	2929.1	1950.6	329.4	309.9	349.0	417.5	440.3	384.9	336.0	316.4	313.1
67.5°	2319.2	1497.2	293.6	293.6	322.9	391.4	424.0	371.8	319.7	306.6	303.3
70°	1516.7	900.3	267.5	270.7	303.3	368.6	404.5	355.5	300.1	296.8	290.3
72.5°	652.4	414.3	238.1	247.9	274.0	329.4	375.1	332.7	277.3	267.5	257.7
75°	300.1	251.2	215.3	221.8	244.6	290.3	339.2	306.6	257.7	241.4	231.6
77.5°	212.0	182.7	179.4	192.4	208.8	251.2	300.1	287.0	238.1	225.1	218.5
80°	156.6	140.3	150.0	163.1	172.9	231.6	283.8	264.2	218.5	199.0	189.2
82.5°	110.9	104.4	117.4	130.5	140.3	202.2	260.9	231.6	182.7	166.4	150.0
85°	65.2	68.5	81.5	88.1	97.9	150.0	218.5	185.9	140.3	107.6	104.4
87.5°	29.4	29.4	39.1	42.4	48.9	88.1	146.8	117.4	88.1	68.5	65.2
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)