

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: P672194

Luminaire Tested: **CCP-SA-2B-850-U-T2R**

Issue Date: 04/16/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P672194  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 04/16/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCP-SA-2B-850-U-T2R  
Description: INVUE CLEAR CURVE POLE MOUNT LIGHT SQUARE LUMINAIRE @450mA w/ T2R distribution lens  
Light Source: (32) 5000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6121.4 lumens  
Efficiency: N/A  
Efficacy: 133.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G1

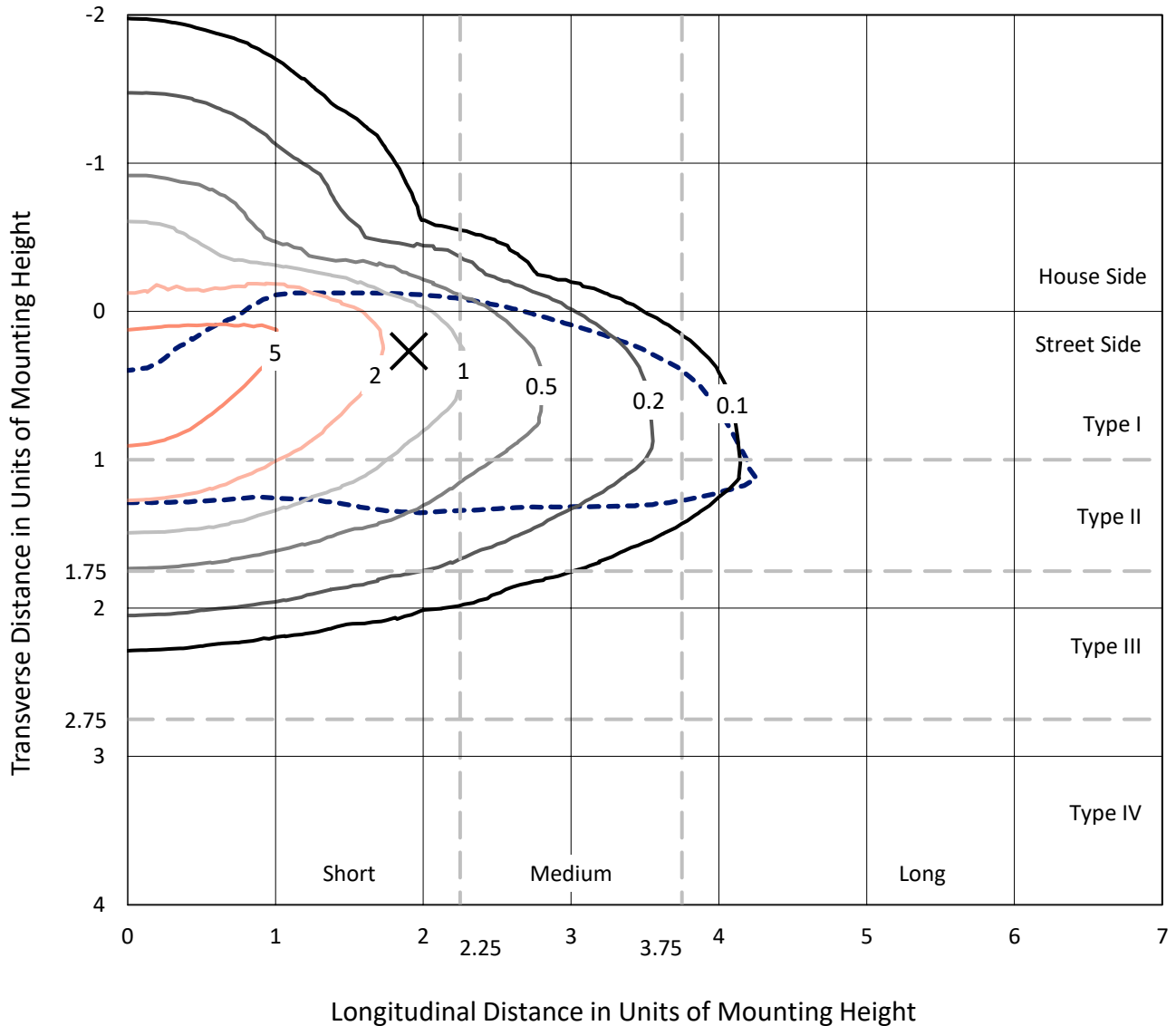
Input Watts (W): 46  
Input Voltage (V): 120  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



REPORT NUMBER: P672194  
 CATALOG NUMBER: CCP-SA-2B-850-U-T2R

### Iso-Footcandle Lines of Horizontal Illumination

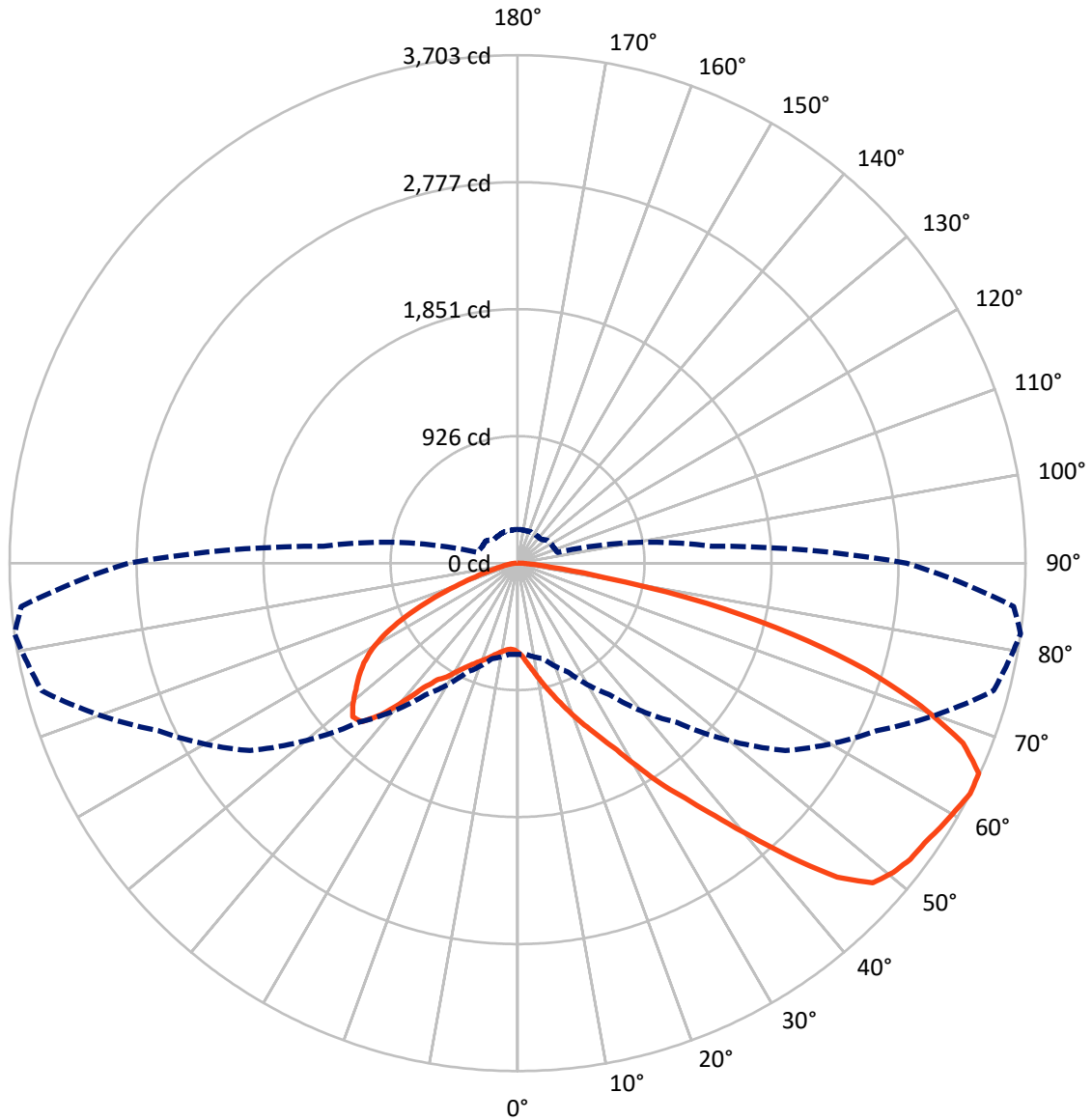
✕ Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 7.2 fc  
 Type II - Short - N/A

REPORT NUMBER: P672194  
CATALOG NUMBER: CCP-SA-2B-850-U-T2R

### Luminous Intensity Polar Plot



— Vertical Plane Through 82-Deg Lateral    - - - Horizontal Cone Through 62.5-Deg Vertical

REPORT NUMBER: P672194

CATALOG NUMBER: CCP-SA-2B-850-U-T2R

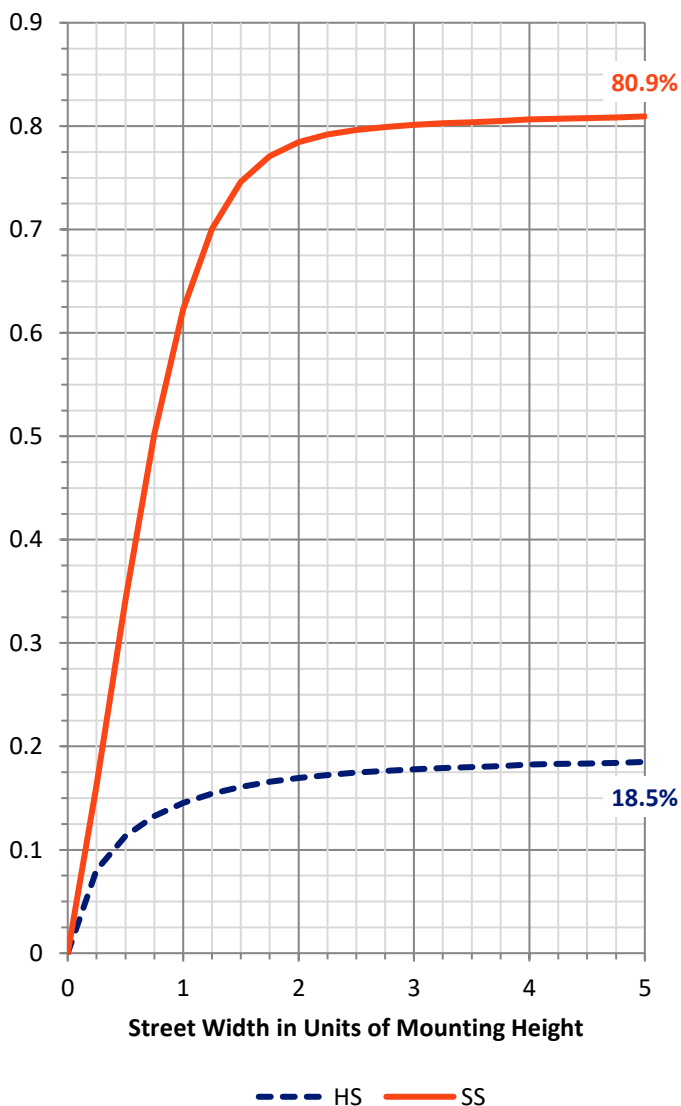
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1153.2	0.0	1153.2
	% Fixture	18.8	0.0	18.8
<b>Street Side</b>	Lumens	4968.1	0.0	4968.1
	% Fixture	81.2	0.0	81.2
<b>Total</b>	Lumens	6121.4	0.0	6121.4
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	72.0	1.2
10°-20°	271.7	4.4
20°-30°	562.7	9.2
30°-40°	955.0	15.6
40°-50°	1300.5	21.2
50°-60°	1316.4	21.5
60°-70°	1037.5	16.9
70°-80°	511.1	8.3
80°-90°	94.5	1.5
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°	6121.4	100.0
0°-180°	6121.4	100.0



REPORT NUMBER: P672194

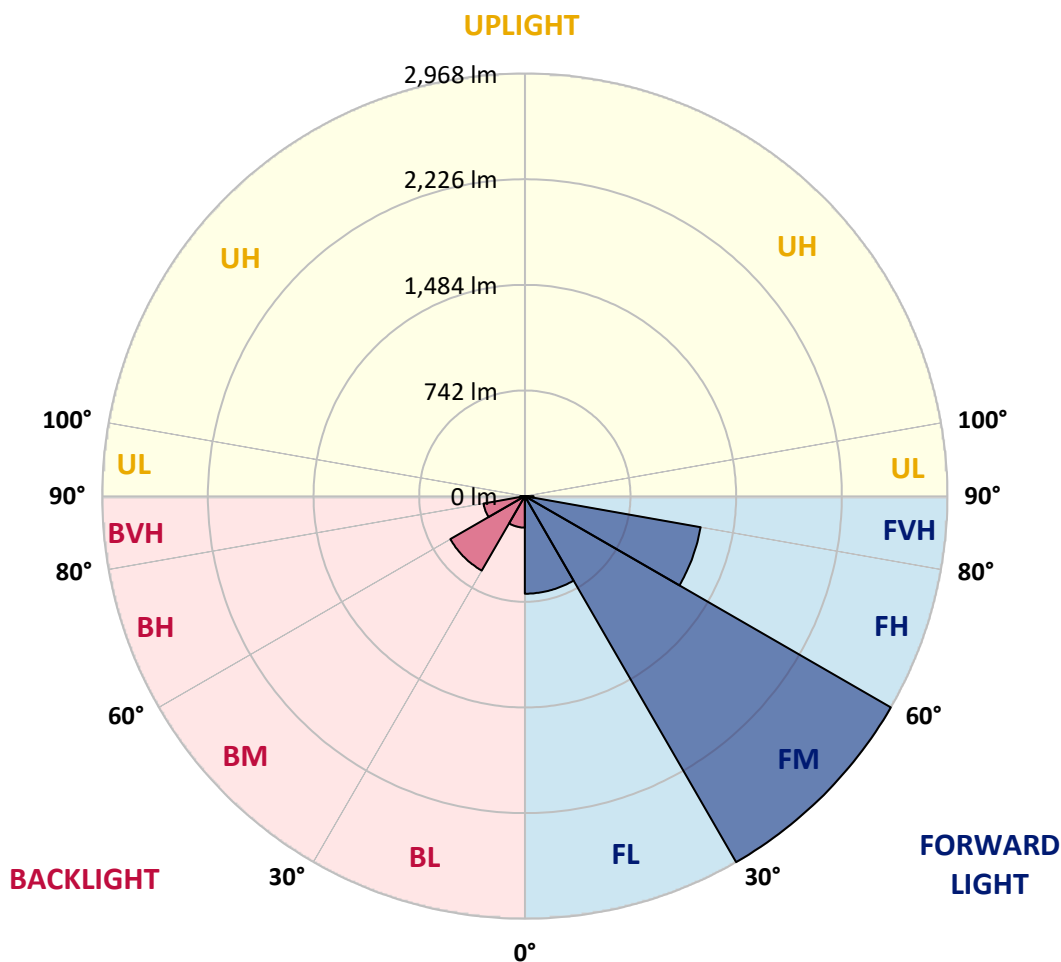
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	685.1	11.2			
FM (30°-60°)	2967.8	48.5			
FH (60°-80°)	1253.7	20.5			G1/1800
FVH (80°-90°)	61.4	1.0			G1/100
BL (0°-30°)	221.3	3.6	B1/500		
BM (30°-60°)	604.1	9.9	B1/1000		
BH (60°-80°)	294.8	4.8	B1/500		G1/500
BVH (80°-90°)	33.1	0.5			G1/100
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





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°	85°
0°	651.0	651.0	651.0	651.0	651.0	651.0	651.0	651.0	651.0	651.0	651.0
2.5°	866.9	853.7	846.6	838.7	816.7	802.6	776.1	745.3	709.6	679.2	673.4
5°	1049.8	1036.6	1038.4	1019.0	986.8	956.8	907.5	849.3	781.4	729.4	711.3
7.5°	1179.0	1164.4	1167.9	1160.0	1134.0	1101.0	1038.4	963.4	864.3	787.2	758.1
10°	1265.3	1267.1	1269.8	1266.7	1249.9	1226.6	1164.4	1081.6	958.2	855.5	815.8
12.5°	1363.2	1368.0	1367.2	1368.5	1359.7	1341.2	1280.3	1202.3	1058.2	929.1	877.5
15°	1487.9	1483.1	1487.0	1492.8	1483.1	1462.8	1409.0	1316.5	1163.1	1011.0	947.1
17.5°	1624.5	1614.4	1625.0	1619.3	1612.2	1599.0	1539.9	1441.2	1271.5	1099.6	1024.7
20°	1742.7	1736.0	1741.8	1742.7	1744.0	1741.3	1680.5	1575.6	1385.2	1196.2	1108.4
22.5°	1875.3	1872.2	1871.4	1871.8	1873.1	1876.2	1834.8	1722.8	1511.3	1297.5	1198.8
25°	2060.9	2057.8	2037.5	2015.0	2001.8	2011.5	1989.9	1889.9	1650.5	1411.2	1298.0
27.5°	2268.9	2264.0	2237.2	2180.3	2138.0	2145.1	2142.8	2074.1	1811.0	1541.7	1417.0
30°	2484.9	2473.0	2435.9	2356.2	2289.6	2277.3	2283.4	2260.5	2012.8	1714.9	1582.7
32.5°	2677.5	2655.4	2606.5	2525.8	2446.5	2410.8	2411.7	2421.8	2232.3	1916.8	1756.3
35°	2795.1	2780.6	2744.0	2662.5	2573.9	2550.1	2543.5	2594.2	2433.7	2103.6	1911.9
37.5°	2858.6	2844.5	2805.3	2739.6	2672.6	2662.9	2675.3	2753.7	2662.5	2336.8	2123.5
40°	2847.1	2832.2	2806.6	2760.8	2716.7	2724.2	2778.8	2900.0	2912.4	2615.8	2424.9
42.5°	2752.8	2737.0	2734.8	2731.7	2711.0	2744.0	2842.7	3007.1	3142.0	2937.9	2789.8
45°	2586.2	2576.5	2588.0	2640.9	2666.9	2730.8	2872.7	3059.1	3343.8	3265.4	3134.9
47.5°	2375.1	2369.4	2395.4	2479.1	2563.3	2690.2	2892.5	3073.2	3482.7	3482.7	3361.0
50°	2138.9	2136.7	2171.1	2292.7	2424.5	2615.8	2890.3	3086.5	3543.5	3546.6	3440.8
52.5°	1809.2	1820.7	1912.3	2072.8	2251.7	2499.0	2859.5	3123.5	3577.9	3584.9	3494.1
55°	1429.3	1440.3	1578.7	1794.7	2023.8	2357.0	2767.4	3112.5	3584.5	3600.4	3524.5
57.5°	1141.1	1143.3	1229.6	1486.2	1770.0	2175.5	2661.1	3039.3	3565.1	3634.3	3571.3
60°	892.9	900.0	957.7	1160.9	1475.6	1941.4	2542.6	2967.0	3576.1	3666.5	3613.6
62.5°	665.1	666.8	720.6	877.9	1172.4	1643.1	2381.7	2889.9	3591.5	3702.6	3630.8
65°	433.2	432.8	484.8	626.7	875.7	1320.9	2129.2	2769.1	3592.9	3694.7	3551.9
67.5°	275.5	277.2	299.7	389.2	586.2	996.9	1785.4	2544.8	3530.3	3502.5	3264.5
70°	223.5	223.9	230.9	254.3	357.0	681.4	1342.0	2194.0	3332.4	3119.5	2837.4
72.5°	199.2	199.7	203.2	205.8	238.0	409.4	880.6	1781.4	2980.7	2658.9	2354.0
75°	178.9	178.9	181.1	178.5	195.2	256.9	499.8	1339.4	2454.9	2070.6	1778.4
77.5°	156.9	156.5	156.5	155.1	168.8	187.8	250.3	934.8	1768.2	1412.1	1153.4
80°	133.1	132.2	133.5	132.7	145.9	142.4	145.9	576.9	958.6	647.4	491.0
82.5°	103.6	103.6	107.5	108.4	120.3	103.1	102.7	273.7	364.0	242.0	181.1
85°	54.2	60.8	82.0	85.5	90.8	64.8	75.4	127.8	145.9	92.6	66.1
87.5°	16.3	17.2	50.2	56.4	56.0	32.6	46.3	61.7	68.3	41.0	26.9
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: P672194  
 CATALOG NUMBER: CCP-SA-2B-850-U-T2R

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	651.0	651.0	651.0	651.0	651.0	651.0	651.0	651.0	651.0	651.0	651.0
2.5°	658.9	643.5	610.9	581.8	559.7	538.6	524.0	516.5	506.8	508.2	505.1
5°	679.2	647.4	589.7	543.0	511.7	487.9	473.3	465.9	458.8	455.3	457.9
7.5°	709.6	660.2	579.6	523.2	490.5	470.3	462.3	460.1	458.4	457.0	459.2
10°	748.8	682.7	577.8	516.1	486.1	473.8	470.7	469.4	467.6	465.9	467.2
12.5°	788.9	707.4	584.0	517.9	493.2	483.9	480.0	478.2	473.8	471.6	472.0
15°	839.2	737.3	592.3	524.9	502.4	490.5	485.2	480.4	473.3	470.3	471.6
17.5°	892.9	773.0	603.8	531.5	506.0	491.4	480.8	473.8	466.7	462.3	462.8
20°	953.7	808.3	613.9	533.7	504.2	483.9	471.1	462.8	453.5	448.7	447.3
22.5°	1016.8	845.3	621.9	532.0	494.5	471.1	456.6	446.5	435.4	428.0	428.4
25°	1093.5	895.6	628.5	525.8	481.7	454.4	438.1	425.3	413.8	406.8	407.2
27.5°	1185.6	952.4	636.4	516.1	466.3	436.3	417.4	404.6	393.6	387.0	386.1
30°	1308.5	1026.5	645.2	504.2	446.9	416.5	398.0	384.8	374.2	368.0	368.0
32.5°	1446.9	1116.8	651.4	490.1	425.3	395.3	378.6	368.0	360.1	351.7	350.8
35°	1567.2	1186.9	670.4	479.1	406.4	375.5	364.0	356.6	344.7	336.7	335.4
37.5°	1744.0	1310.3	726.3	476.0	383.4	360.1	357.9	343.8	330.1	315.1	313.8
40°	2028.7	1524.1	791.6	461.0	359.6	351.7	349.5	330.6	298.4	289.1	287.4
42.5°	2391.0	1781.4	798.6	417.4	342.9	344.7	338.0	301.0	286.9	279.9	278.1
45°	2718.0	1990.4	758.5	372.9	330.6	334.1	320.4	290.0	282.1	275.5	273.7
47.5°	2901.8	2054.7	682.7	339.4	321.3	324.8	292.2	284.7	276.8	270.2	268.4
50°	2953.4	1998.7	594.5	320.0	314.2	315.6	284.7	280.3	273.3	268.0	265.3
52.5°	2963.5	1915.0	513.0	308.5	309.0	297.1	278.1	274.6	270.2	261.8	258.7
55°	2967.9	1839.6	439.9	301.5	305.4	273.3	271.1	268.4	264.9	256.1	254.3
57.5°	2979.4	1743.1	382.6	296.2	301.0	262.2	263.1	261.4	256.9	253.0	252.1
60°	2946.7	1609.6	338.5	290.9	294.9	253.0	253.9	254.7	250.8	249.9	249.5
62.5°	2837.4	1420.0	301.0	283.8	282.1	243.7	243.7	247.3	243.7	245.0	245.0
65°	2612.2	1178.5	267.5	270.6	262.2	233.6	233.1	239.3	234.0	239.8	240.2
67.5°	2228.3	892.0	233.1	249.9	241.5	223.0	224.8	229.6	222.6	234.5	234.5
70°	1763.8	606.9	197.4	220.8	220.4	211.1	216.8	216.4	208.5	226.1	223.0
72.5°	1313.8	389.6	160.9	185.1	192.6	198.3	208.9	199.7	192.2	202.3	193.0
75°	918.0	244.2	126.9	146.3	160.4	184.2	199.2	180.7	169.7	166.6	164.0
77.5°	549.6	156.0	100.0	111.5	125.2	167.5	186.9	160.9	144.1	142.4	137.1
80°	253.4	101.8	76.2	83.3	89.0	143.7	170.1	137.5	117.2	115.5	109.3
82.5°	114.6	67.0	56.9	59.5	59.9	114.2	143.7	108.9	89.5	145.0	125.6
85°	53.3	43.2	37.0	35.3	35.7	76.2	104.5	74.9	101.8	79.3	60.4
87.5°	22.9	22.0	19.0	15.0	13.7	16.3	40.1	31.3	44.5	17.6	11.9
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)