

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: P672159

Luminaire Tested: **CCP-SA-1F-830-U-T2R**

Issue Date: 04/16/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P672159  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 04/16/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCP-SA-1F-830-U-T2R  
Description: INVUE CLEAR CURVE POLE MOUNT LIGHT SQUARE LUMINAIRE @1200mA w/ T2R distribution lens  
Light Source: (16) 3000K CCT, 80 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

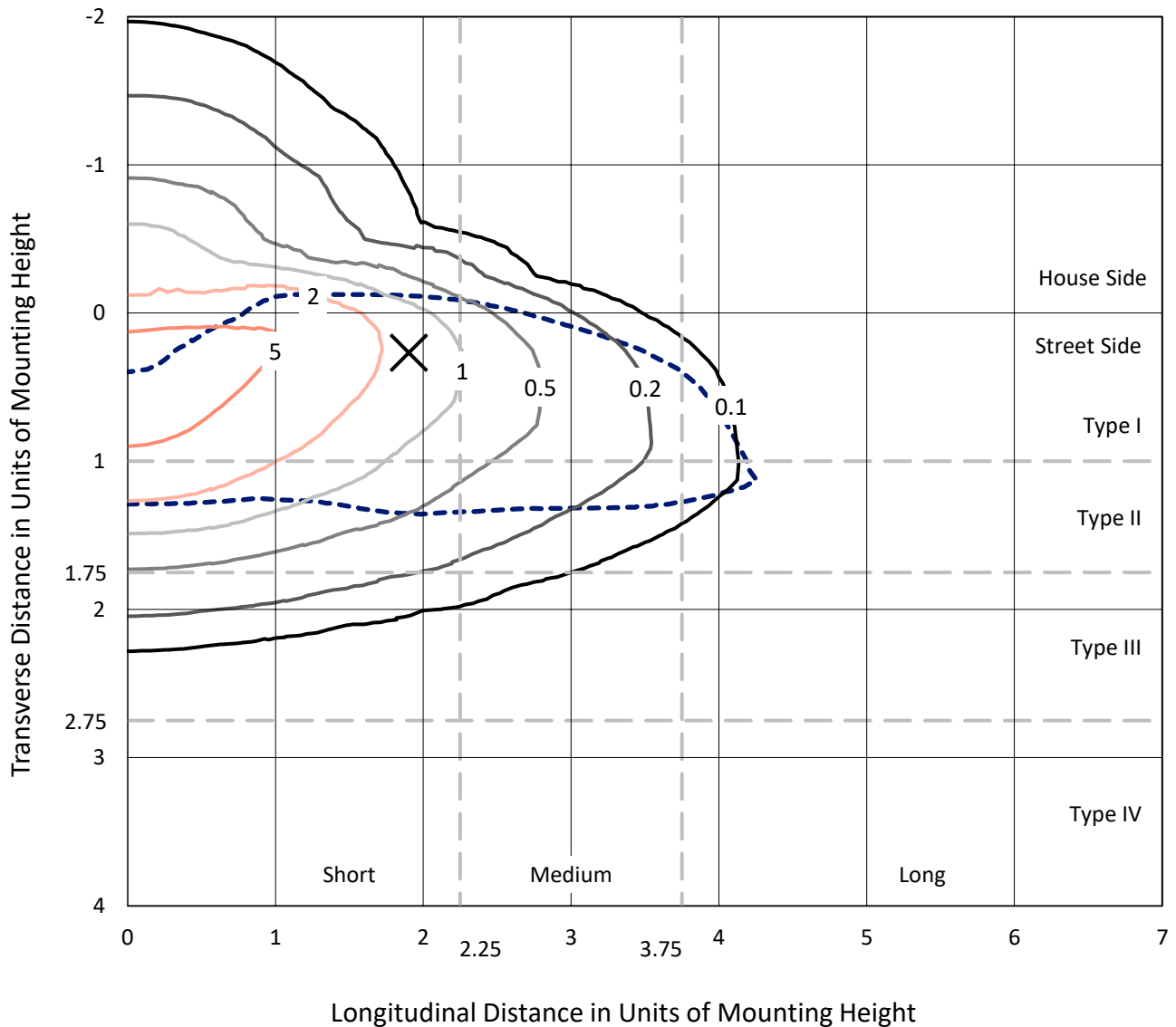
Lumens per Lamp: N/A  
Luminaire Lumens: 6051.6 lumens  
Efficiency: N/A  
Efficacy: 90.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G1

Input Watts (W): 67  
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

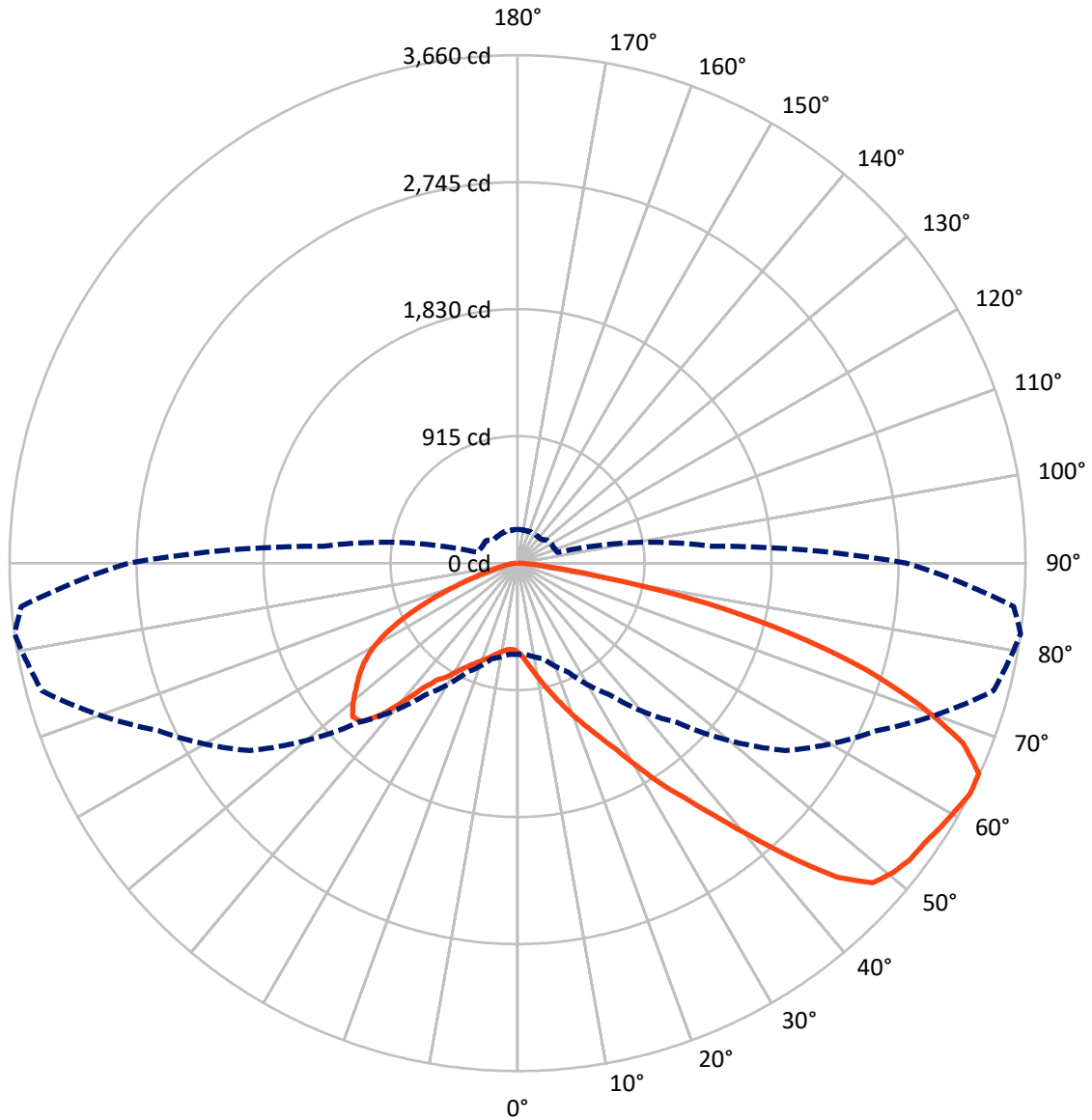
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 7.1 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



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

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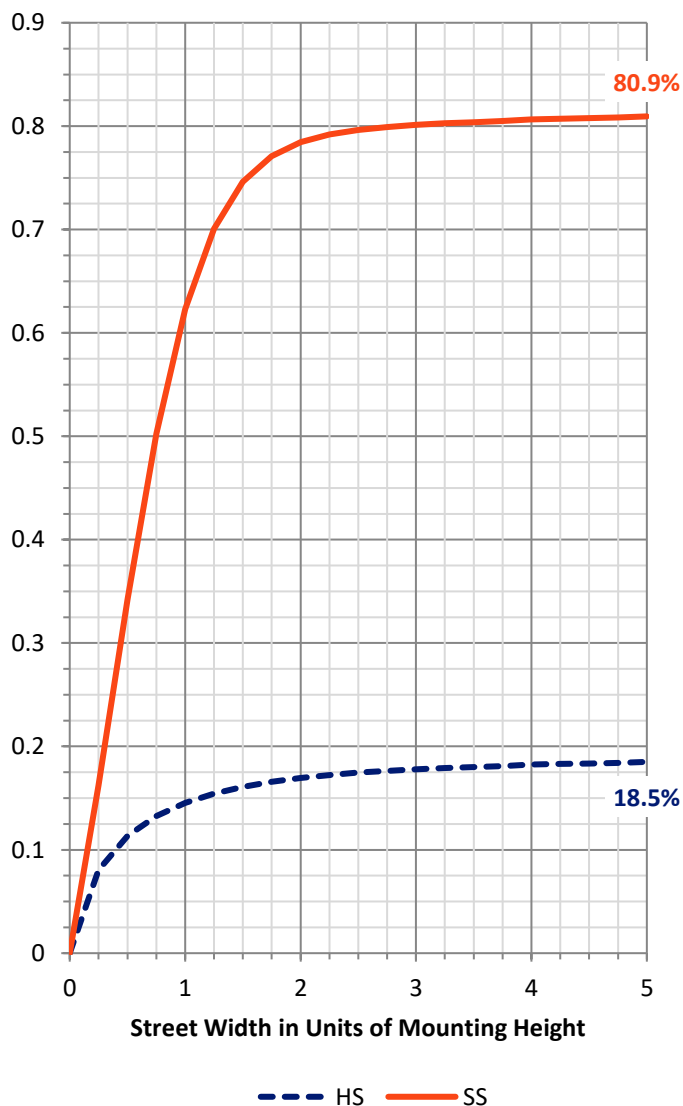
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1140.1	0.0	1140.1
	% Fixture	18.8	0.0	18.8
<b>Street Side</b>	Lumens	4911.5	0.0	4911.5
	% Fixture	81.2	0.0	81.2
<b>Total</b>	Lumens	6051.6	0.0	6051.6
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	71.2	1.2
10°-20°	268.6	4.4
20°-30°	556.3	9.2
30°-40°	944.1	15.6
40°-50°	1285.7	21.2
50°-60°	1301.4	21.5
60°-70°	1025.6	16.9
70°-80°	505.2	8.3
80°-90°	93.4	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°	6051.6	100.0
0°-180°	6051.6	100.0



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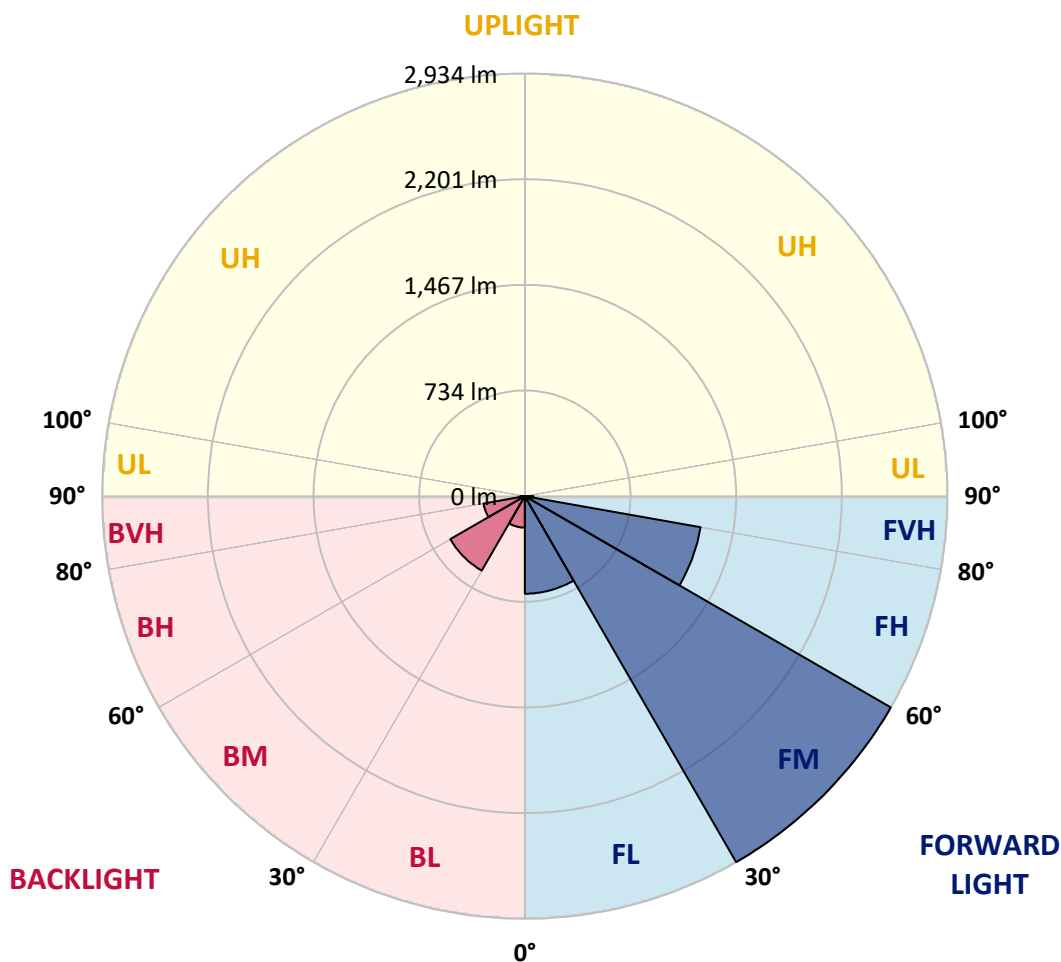
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	677.3	11.2			
FM (30°-60°)	2934.0	48.5			
FH (60°-80°)	1239.5	20.5			G1/1800
FVH (80°-90°)	60.7	1.0			G1/100
BL (0°-30°)	218.8	3.6	B1/500		
BM (30°-60°)	597.2	9.9	B1/1000		
BH (60°-80°)	291.4	4.8	B1/500		G1/500
BVH (80°-90°)	32.7	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°	643.5	643.5	643.5	643.5	643.5	643.5	643.5	643.5	643.5	643.5	643.5
2.5°	857.0	844.0	837.0	829.2	807.4	793.4	767.3	736.8	701.5	671.4	665.8
5°	1037.9	1024.8	1026.5	1007.4	975.6	945.9	897.1	839.6	772.5	721.1	703.2
7.5°	1165.5	1151.1	1154.6	1146.8	1121.1	1088.4	1026.5	952.5	854.4	778.2	749.4
10°	1250.9	1252.7	1255.3	1252.2	1235.7	1212.6	1151.1	1069.2	947.2	845.7	806.5
12.5°	1347.6	1352.4	1351.6	1352.9	1344.2	1325.9	1265.7	1188.6	1046.1	918.5	867.5
15°	1471.0	1466.2	1470.1	1475.7	1466.2	1446.1	1393.0	1301.5	1149.8	999.5	936.3
17.5°	1606.0	1596.0	1606.5	1600.8	1593.8	1580.8	1522.4	1424.8	1257.0	1087.1	1013.0
20°	1722.8	1716.3	1721.9	1722.8	1724.1	1721.5	1661.4	1557.7	1369.4	1182.5	1095.8
22.5°	1853.9	1850.9	1850.0	1850.5	1851.8	1854.8	1813.9	1703.2	1494.0	1282.7	1185.1
25°	2037.4	2034.3	2014.3	1992.1	1979.0	1988.6	1967.2	1868.3	1631.7	1395.1	1283.2
27.5°	2243.0	2238.2	2211.7	2155.5	2113.6	2120.6	2118.4	2050.4	1790.3	1524.1	1400.8
30°	2456.5	2444.8	2408.2	2329.3	2263.5	2251.3	2257.4	2234.8	1989.9	1695.3	1564.6
32.5°	2646.9	2625.1	2576.8	2497.1	2418.6	2383.3	2384.2	2394.2	2206.9	1894.9	1736.3
35°	2763.3	2748.9	2712.7	2632.1	2544.5	2521.0	2514.5	2564.6	2406.0	2079.6	1890.1
37.5°	2826.0	2812.1	2773.3	2708.4	2642.1	2632.6	2644.8	2722.3	2632.1	2310.1	2099.2
40°	2814.7	2799.9	2774.6	2729.3	2685.7	2693.1	2747.1	2867.0	2879.2	2585.9	2397.3
42.5°	2721.4	2705.8	2703.6	2700.5	2680.0	2712.7	2810.3	2972.8	3106.2	2904.4	2758.0
45°	2556.7	2547.2	2558.5	2610.8	2636.5	2699.7	2840.0	3024.3	3305.7	3228.2	3099.2
47.5°	2348.0	2342.4	2368.1	2450.9	2534.1	2659.6	2859.6	3038.2	3443.0	3443.0	3322.7
50°	2114.5	2112.3	2146.3	2266.6	2396.8	2585.9	2857.4	3051.3	3503.1	3506.2	3401.6
52.5°	1788.6	1799.9	1890.5	2049.1	2226.0	2470.5	2826.9	3087.9	3537.1	3544.1	3454.3
55°	1413.0	1423.9	1560.7	1774.2	2000.8	2330.2	2735.8	3077.0	3543.6	3559.3	3484.4
57.5°	1128.1	1130.2	1215.6	1469.2	1749.8	2150.7	2630.8	3004.7	3524.5	3592.9	3530.6
60°	882.7	889.7	946.8	1147.7	1458.8	1919.3	2513.6	2933.2	3535.3	3624.7	3572.4
62.5°	657.5	659.2	712.4	867.9	1159.0	1624.3	2354.6	2856.9	3550.6	3660.4	3589.4
65°	428.3	427.9	479.3	619.6	865.8	1305.8	2104.9	2737.6	3551.9	3652.6	3511.4
67.5°	272.3	274.1	296.3	384.7	579.5	985.6	1765.1	2515.8	3490.0	3462.6	3227.3
70°	220.9	221.3	228.3	251.4	352.9	673.6	1326.7	2169.0	3294.4	3084.0	2805.1
72.5°	196.9	197.4	200.9	203.5	235.3	404.8	870.5	1761.1	2946.7	2628.6	2327.1
75°	176.9	176.9	179.1	176.5	193.0	254.0	494.1	1324.1	2426.9	2047.0	1758.1
77.5°	155.1	154.7	154.7	153.4	166.9	185.6	247.5	924.1	1748.1	1396.0	1140.3
80°	131.6	130.7	132.0	131.1	144.2	140.7	144.2	570.3	947.7	640.1	485.4
82.5°	102.4	102.4	106.3	107.2	118.9	102.0	101.5	270.6	359.9	239.2	179.1
85°	53.6	60.1	81.0	84.5	89.8	64.0	74.5	126.4	144.2	91.5	65.4
87.5°	16.1	17.0	49.7	55.8	55.3	32.2	45.7	61.0	67.5	40.5	26.6
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°	643.5	643.5	643.5	643.5	643.5	643.5	643.5	643.5	643.5	643.5	643.5
2.5°	651.4	636.1	603.9	575.1	553.4	532.4	518.1	510.7	501.1	502.4	499.3
5°	671.4	640.1	583.0	536.8	505.9	482.3	468.0	460.5	453.6	450.1	452.7
7.5°	701.5	652.7	573.0	517.2	484.9	464.9	457.1	454.9	453.1	451.8	454.0
10°	740.3	674.9	571.2	510.2	480.6	468.4	465.3	464.0	462.3	460.5	461.9
12.5°	779.9	699.3	577.3	512.0	487.6	478.4	474.5	472.7	468.4	466.2	466.6
15°	829.6	728.9	585.6	518.9	496.7	484.9	479.7	474.9	468.0	464.9	466.2
17.5°	882.7	764.2	596.9	525.5	500.2	485.8	475.4	468.4	461.4	457.1	457.5
20°	942.9	799.1	606.9	527.6	498.5	478.4	465.8	457.5	448.3	443.6	442.2
22.5°	1005.2	835.7	614.8	525.9	488.9	465.8	451.4	441.4	430.5	423.1	423.5
25°	1081.0	885.4	621.3	519.8	476.2	449.2	433.1	420.5	409.1	402.2	402.6
27.5°	1172.1	941.6	629.2	510.2	461.0	431.4	412.6	400.0	389.1	382.6	381.7
30°	1293.6	1014.8	637.9	498.5	441.8	411.7	393.4	380.4	369.9	363.8	363.8
32.5°	1430.4	1104.1	644.0	484.5	420.5	390.8	374.3	363.8	356.0	347.7	346.8
35°	1549.4	1173.4	662.7	473.6	401.7	371.2	359.9	352.5	340.7	332.9	331.6
37.5°	1724.1	1295.4	718.0	470.6	379.1	356.0	353.8	339.9	326.3	311.5	310.2
40°	2005.6	1506.7	782.5	455.8	355.5	347.7	345.5	326.8	295.0	285.8	284.1
42.5°	2363.7	1761.1	789.5	412.6	339.0	340.7	334.2	297.6	283.6	276.7	274.9
45°	2687.0	1967.7	749.9	368.6	326.8	330.3	316.8	286.7	278.9	272.3	270.6
47.5°	2868.7	2031.3	674.9	335.5	317.6	321.1	288.9	281.5	273.6	267.1	265.3
50°	2919.7	1975.9	587.8	316.3	310.7	312.0	281.5	277.1	270.1	264.9	262.3
52.5°	2929.7	1893.2	507.2	305.0	305.4	293.7	274.9	271.4	267.1	258.8	255.8
55°	2934.1	1818.7	434.8	298.0	301.9	270.1	268.0	265.3	261.9	253.1	251.4
57.5°	2945.4	1723.2	378.2	292.8	297.6	259.2	260.1	258.4	254.0	250.1	249.2
60°	2913.2	1591.2	334.6	287.6	291.5	250.1	251.0	251.8	247.9	247.0	246.6
62.5°	2805.1	1403.9	297.6	280.6	278.9	240.9	240.9	244.4	240.9	242.3	242.3
65°	2582.4	1165.1	264.5	267.5	259.2	230.9	230.5	236.6	231.4	237.0	237.5
67.5°	2202.9	881.9	230.5	247.0	238.8	220.5	222.2	227.0	220.0	231.8	231.8
70°	1743.7	600.0	195.2	218.3	217.9	208.7	214.4	213.9	206.1	223.5	220.5
72.5°	1298.8	385.2	159.0	183.0	190.4	196.1	206.5	197.4	190.0	200.0	190.8
75°	907.6	241.4	125.5	144.7	158.6	182.1	196.9	178.6	167.7	164.7	162.1
77.5°	543.3	154.2	98.9	110.2	123.7	165.6	184.7	159.0	142.5	140.7	135.5
80°	250.5	100.6	75.4	82.3	88.0	142.0	168.2	135.9	115.9	114.2	108.1
82.5°	113.3	66.2	56.2	58.8	59.3	112.8	142.0	107.6	88.4	143.3	124.2
85°	52.7	42.7	36.6	34.9	35.3	75.4	103.3	74.1	100.6	78.4	59.7
87.5°	22.7	21.8	18.7	14.8	13.5	16.1	39.6	30.9	44.0	17.4	11.8
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)