

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: P670647

Luminaire Tested: **CCP-SA-2E-727-U-T2**

Issue Date: 04/16/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P670647  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 04/16/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCP-SA-2E-727-U-T2  
Description: INVUE CLEAR CURVE POLE MOUNT LIGHT SQUARE LUMINAIRE @1050mA w/ T2 distribution lens  
Light Source: (32) 2700K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

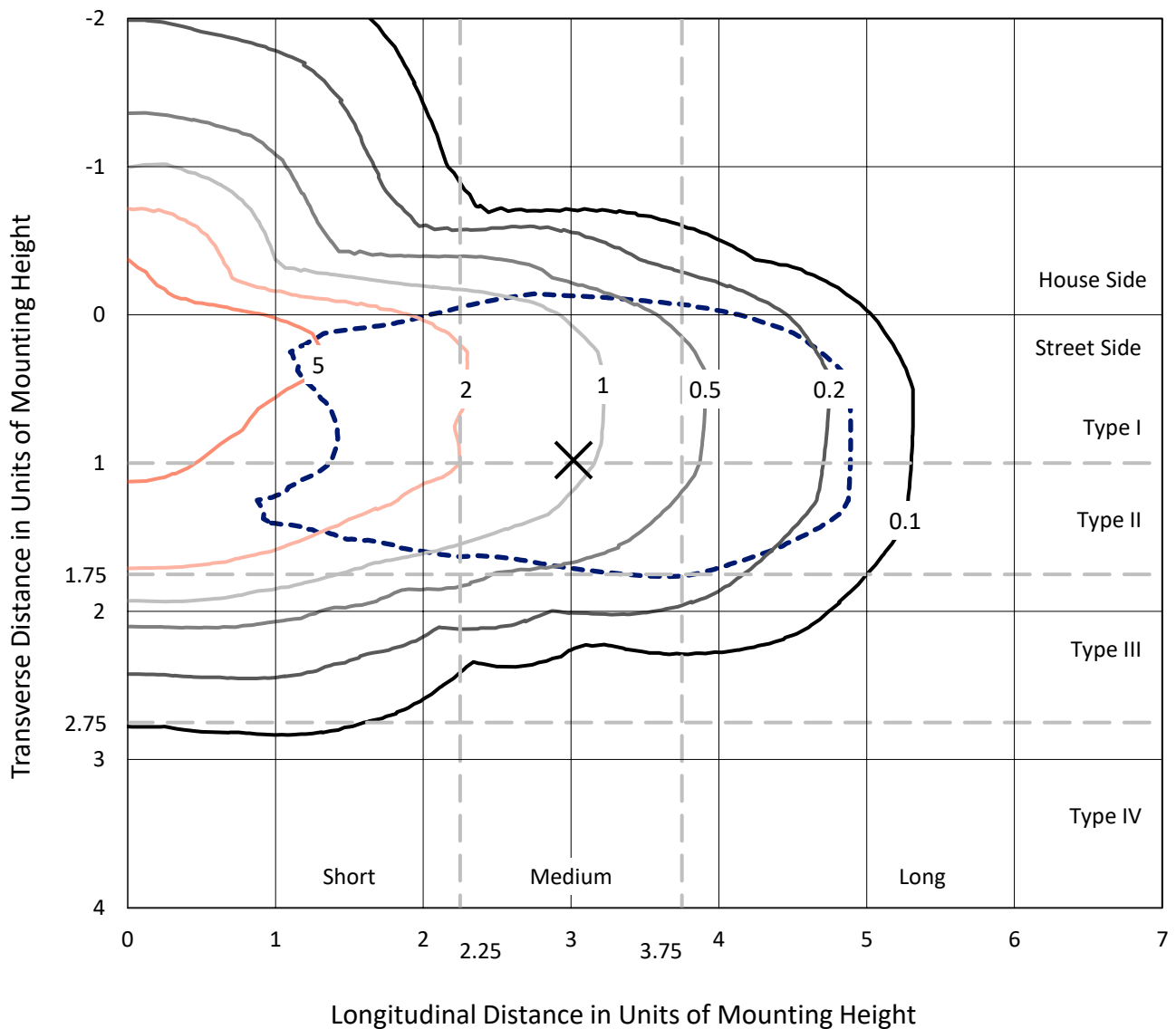
Lumens per Lamp: N/A  
Luminaire Lumens: 11406.2 lumens  
Efficiency: N/A  
Efficacy: 107.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B2 - U0 - G2

Input Watts (W): 106.6  
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

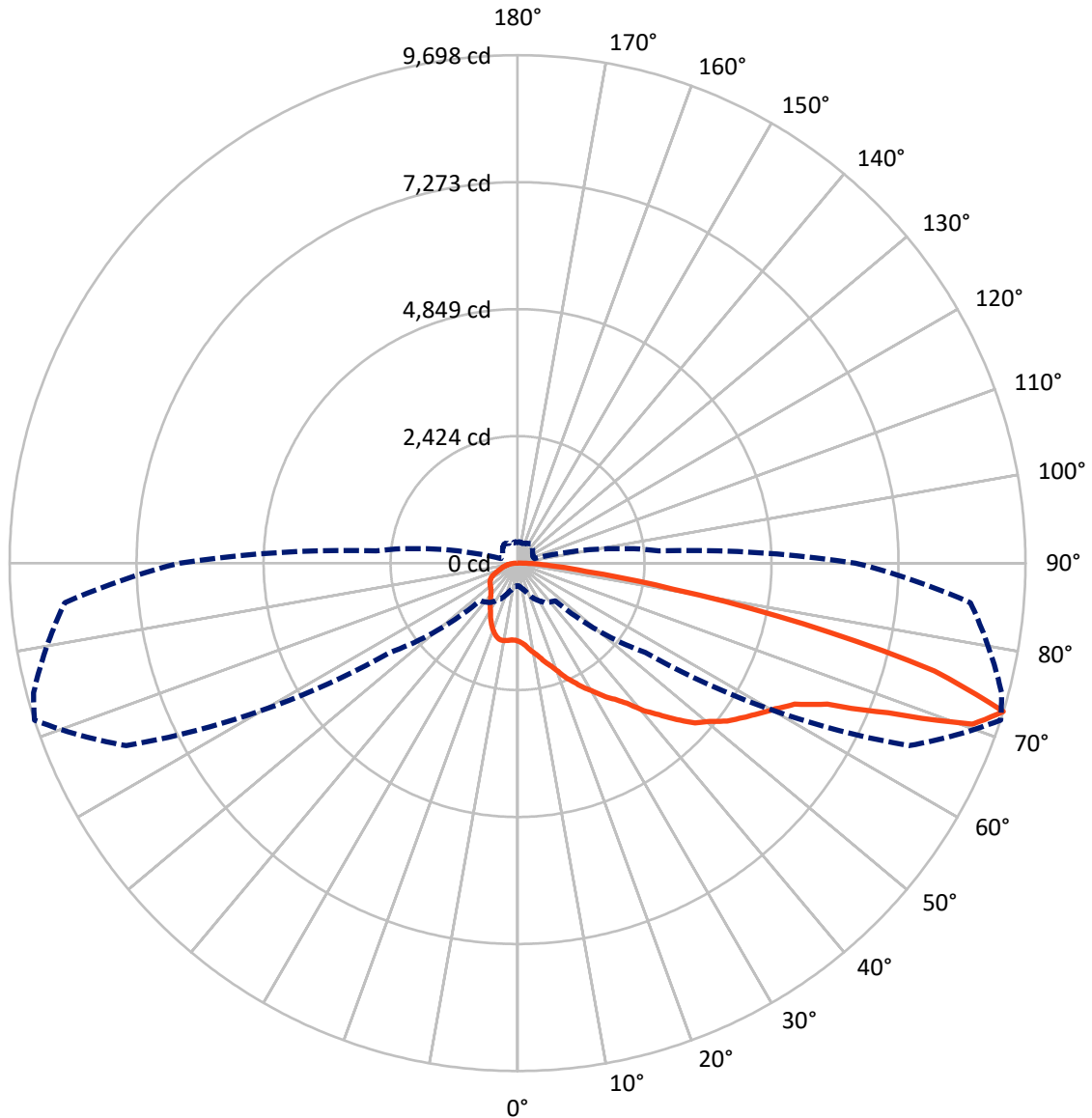
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 8.3 fc  
 Type II - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 72-Deg Lateral      - - - Horizontal Cone Through 72.5-Deg Vertical

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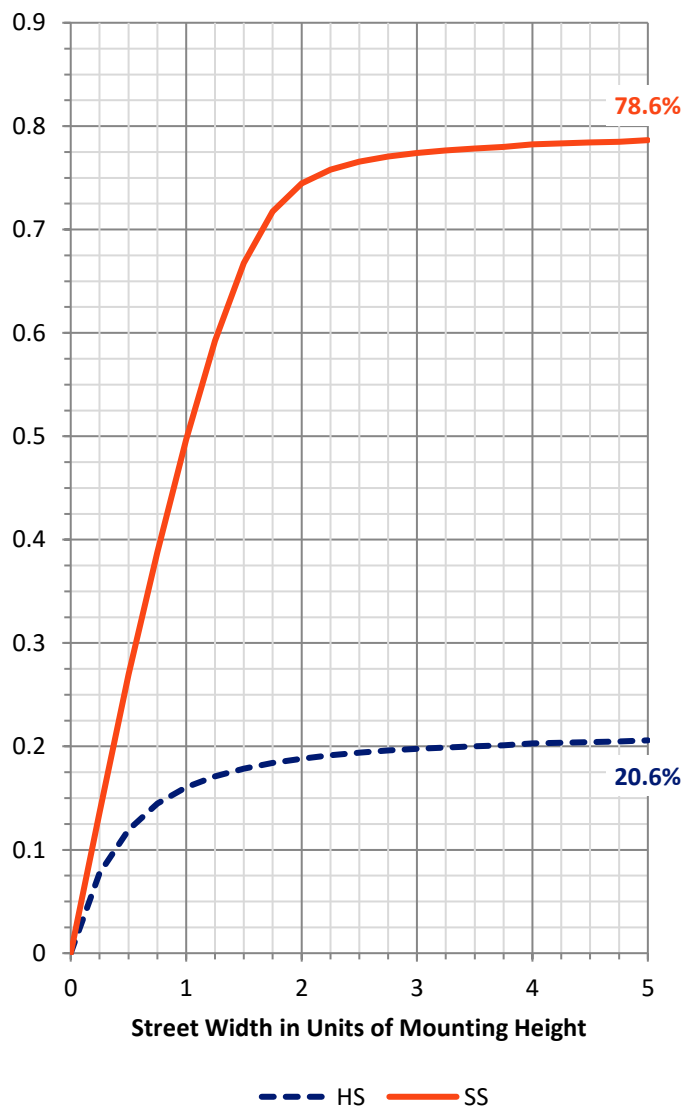
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2400.5	0.0	2400.5
	% Fixture	21.0	0.0	21.0
<b>Street Side</b>	Lumens	9005.7	0.0	9005.7
	% Fixture	79.0	0.0	79.0
<b>Total</b>	Lumens	11406.2	0.0	11406.2
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	147.3	1.3
10°-20°	457.7	4.0
20°-30°	792.0	6.9
30°-40°	1169.9	10.3
40°-50°	1739.8	15.3
50°-60°	2385.2	20.9
60°-70°	2587.2	22.7
70°-80°	1824.0	16.0
80°-90°	303.1	2.7
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°	11406.2	100.0
0°-180°	11406.2	100.0



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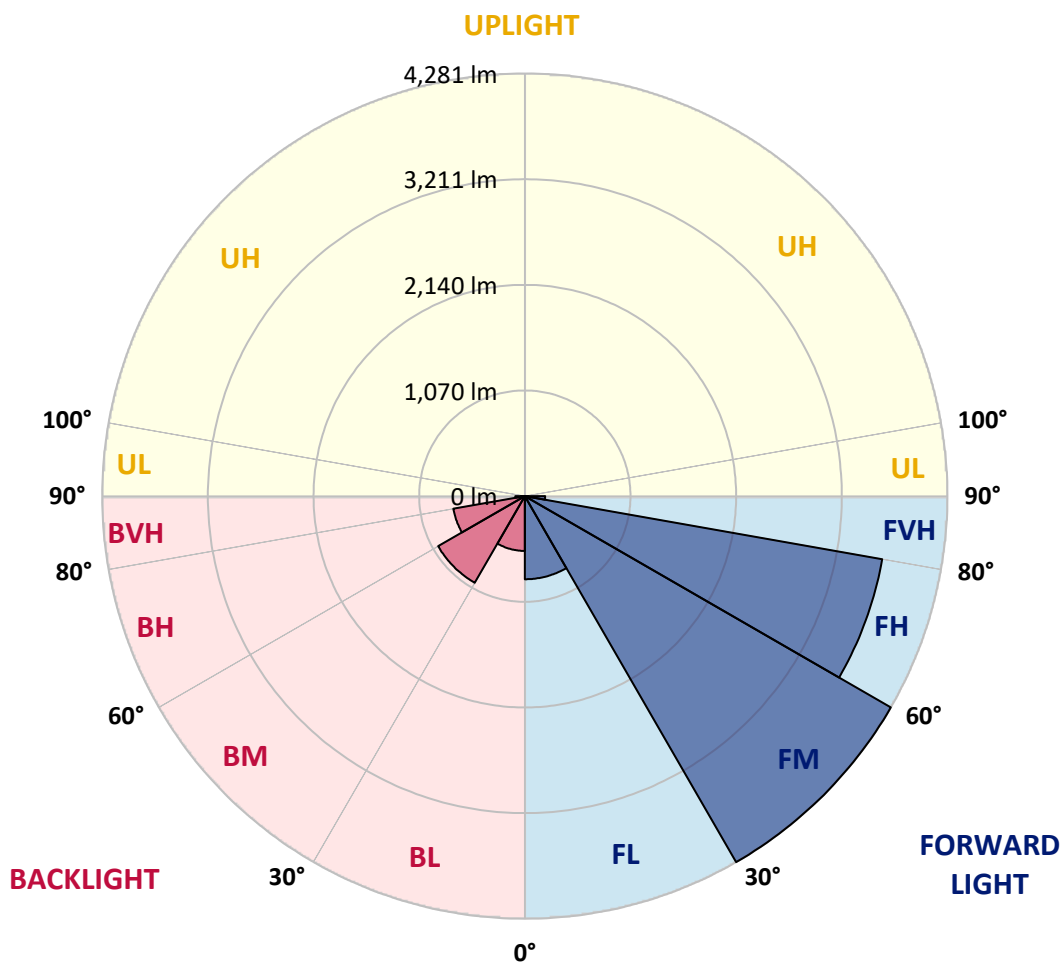
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	842.3	7.4			
FM (30°-60°)	4281.0	37.5			
FH (60°-80°)	3675.9	32.2			G2/5000
FVH (80°-90°)	206.6	1.8			G2/225
BL (0°-30°)	554.8	4.9	B2/1000		
BM (30°-60°)	1013.9	8.9	B2/2500		
BH (60°-80°)	735.3	6.4	B2/1000		G2/1000
BVH (80°-90°)	96.4	0.8			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G2**

Type II Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	72°	75°	85°
0°	1490.0	1490.0	1490.0	1490.0	1490.0	1490.0	1490.0	1490.0	1490.0	1490.0	1490.0
2.5°	1607.8	1607.8	1595.2	1591.0	1591.0	1557.3	1561.5	1540.5	1523.6	1523.6	1506.8
5°	1692.0	1683.6	1683.6	1683.6	1662.5	1649.9	1645.7	1607.8	1578.4	1582.6	1532.1
7.5°	1713.0	1717.3	1721.5	1742.5	1729.9	1738.3	1729.9	1687.8	1666.8	1645.7	1599.4
10°	1725.7	1734.1	1734.1	1763.6	1763.6	1784.6	1797.2	1780.4	1742.5	1721.5	1645.7
12.5°	1755.1	1742.5	1759.3	1780.4	1801.4	1839.3	1877.2	1860.4	1835.1	1809.9	1725.7
15°	1755.1	1759.3	1772.0	1805.6	1839.3	1877.2	1944.5	1969.8	1957.2	1910.9	1822.5
17.5°	1704.6	1692.0	1750.9	1814.1	1877.2	1923.5	2011.9	2070.8	2062.4	2045.6	1910.9
20°	1708.8	1721.5	1742.5	1797.2	1898.2	1982.4	2091.9	2188.7	2209.7	2201.3	2028.7
22.5°	1784.6	1788.8	1809.9	1835.1	1915.1	2024.5	2188.7	2344.4	2382.3	2361.2	2159.2
25°	1860.4	1894.0	1894.0	1910.9	1940.3	2054.0	2251.8	2470.7	2525.4	2529.6	2293.9
27.5°	1982.4	1990.8	2016.1	2024.5	2049.8	2117.1	2323.3	2563.3	2689.5	2672.7	2415.9
30°	2125.5	2129.7	2146.6	2138.2	2142.4	2226.5	2390.7	2668.5	2841.1	2845.3	2546.4
32.5°	2293.9	2327.6	2336.0	2281.3	2289.7	2310.7	2495.9	2794.8	3030.5	3001.0	2660.1
35°	2542.2	2554.8	2529.6	2504.3	2441.2	2428.6	2605.3	2921.0	3194.6	3228.3	2828.4
37.5°	2849.5	2883.1	2849.5	2714.8	2647.4	2596.9	2740.0	3059.9	3392.4	3506.1	2996.8
40°	3135.7	3131.5	3097.8	2975.7	2857.9	2820.0	2933.6	3253.5	3699.7	3809.1	3240.9
42.5°	3367.2	3354.5	3333.5	3240.9	3131.5	3068.3	3156.7	3455.6	3956.4	4166.9	3522.9
45°	3569.2	3552.4	3556.6	3451.4	3346.1	3379.8	3379.8	3687.1	4259.5	4520.4	3847.0
47.5°	3758.6	3767.0	3754.4	3674.4	3594.5	3682.8	3636.5	3952.2	4558.3	4848.7	4120.6
50°	3977.5	3994.3	3952.2	3901.7	3830.2	3918.5	3859.6	4200.5	4751.9	5147.6	4448.9
52.5°	4183.7	4200.5	4238.4	4175.3	4103.7	4175.3	4040.6	4432.0	5008.7	5438.0	4701.4
55°	4234.2	4225.8	4436.2	4503.6	4541.5	4326.8	4200.5	4629.9	5210.7	5623.2	4987.6
57.5°	4002.7	4023.8	4310.0	4503.6	4907.7	4722.5	4381.5	4861.4	5421.1	5867.3	5252.8
60°	3426.1	3438.7	3796.5	4255.3	4844.5	5092.8	4869.8	5160.2	5652.6	6073.5	5551.6
62.5°	2289.7	2386.5	2832.6	3552.4	4398.4	5193.9	5648.4	5665.3	5934.6	6334.5	5959.9
65°	1208.0	1254.3	1603.6	2184.5	3333.5	4844.5	6380.8	6667.0	6498.6	6814.3	6549.1
67.5°	791.3	808.1	997.5	1325.8	1923.5	3535.5	6465.0	8405.3	7630.9	7727.7	7492.0
70°	589.3	597.7	736.6	980.7	1191.1	1889.8	5299.1	9217.6	9213.4	8956.7	8611.5
72.5°	433.5	446.2	543.0	749.2	917.6	1018.6	2979.9	8245.4	9697.5	9567.0	8678.9
75°	340.9	349.3	399.9	580.8	740.8	669.2	1511.0	6107.2	8224.3	8851.5	7942.3
77.5°	277.8	286.2	315.7	420.9	593.5	517.7	723.9	3939.6	5576.9	6372.4	6077.7
80°	231.5	231.5	252.5	298.8	458.8	391.4	429.3	2213.9	3005.2	3316.7	2756.9
82.5°	197.8	193.6	210.4	218.9	340.9	282.0	277.8	1001.7	1321.6	1401.6	1035.4
85°	126.3	130.5	197.8	189.4	223.1	193.6	155.7	475.6	622.9	635.6	387.2
87.5°	50.5	50.5	84.2	105.2	126.3	117.9	75.8	214.7	273.6	273.6	109.4
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°	1490.0	1490.0	1490.0	1490.0	1490.0	1490.0	1490.0	1490.0	1490.0	1490.0	1490.0
2.5°	1502.6	1485.8	1473.1	1464.7	1443.7	1422.6	1426.8	1422.6	1405.8	1397.4	1397.4
5°	1519.4	1502.6	1481.6	1447.9	1426.8	1401.6	1410.0	1393.2	1376.3	1389.0	1367.9
7.5°	1561.5	1532.1	1502.6	1452.1	1418.4	1380.5	1363.7	1355.3	1342.7	1334.2	1334.2
10°	1620.5	1578.4	1523.6	1447.9	1393.2	1334.2	1325.8	1309.0	1296.4	1296.4	1292.2
12.5°	1679.4	1633.1	1540.5	1418.4	1325.8	1283.7	1279.5	1283.7	1292.2	1296.4	1300.6
15°	1755.1	1679.4	1536.3	1363.7	1271.1	1254.3	1275.3	1292.2	1309.0	1325.8	1321.6
17.5°	1826.7	1738.3	1498.4	1296.4	1224.8	1229.0	1266.9	1300.6	1334.2	1351.1	1355.3
20°	1923.5	1793.0	1443.7	1216.4	1178.5	1216.4	1266.9	1309.0	1346.9	1367.9	1372.1
22.5°	2032.9	1856.2	1372.1	1144.8	1140.6	1178.5	1229.0	1292.2	1334.2	1372.1	1367.9
25°	2129.7	1898.2	1279.5	1085.9	1094.3	1119.6	1178.5	1245.9	1287.9	1330.0	1317.4
27.5°	2192.9	1906.7	1182.7	1043.8	1043.8	1069.1	1123.8	1165.9	1203.8	1237.4	1241.6
30°	2264.4	1889.8	1073.3	989.1	989.1	1022.8	1043.8	1069.1	1090.1	1098.5	1107.0
32.5°	2348.6	1851.9	1005.9	947.0	947.0	972.3	984.9	976.5	972.3	951.2	963.9
35°	2428.6	1797.2	930.2	892.3	909.1	921.8	917.6	892.3	867.0	829.2	816.5
37.5°	2525.4	1742.5	862.8	833.4	862.8	867.0	867.0	837.6	803.9	757.6	757.6
40°	2672.7	1700.4	808.1	795.5	825.0	820.7	799.7	778.7	791.3	766.0	766.0
42.5°	2828.4	1683.6	757.6	761.8	774.4	778.7	757.6	732.4	782.9	753.4	757.6
45°	3022.0	1696.2	723.9	719.7	749.2	745.0	732.4	711.3	728.2	652.4	631.3
47.5°	3203.0	1721.5	707.1	690.3	723.9	732.4	715.5	669.2	644.0	597.7	589.3
50°	3367.2	1776.2	690.3	656.6	690.3	707.1	677.6	627.1	597.7	568.2	568.2
52.5°	3522.9	1856.2	681.9	618.7	648.2	669.2	652.4	601.9	568.2	555.6	543.0
55°	3682.8	1927.7	669.2	593.5	601.9	644.0	639.8	572.4	538.7	538.7	534.5
57.5°	3910.1	2024.5	652.4	551.4	568.2	614.5	614.5	559.8	521.9	526.1	530.3
60°	4141.6	2138.2	635.6	509.3	521.9	585.0	593.5	543.0	509.3	513.5	509.3
62.5°	4512.0	2348.6	601.9	458.8	484.0	547.2	568.2	521.9	492.4	500.9	500.9
65°	5071.8	2710.6	530.3	416.7	446.2	513.5	543.0	500.9	467.2	492.4	484.0
67.5°	5972.5	3207.2	446.2	383.0	420.9	479.8	513.5	475.6	446.2	484.0	471.4
70°	6780.6	3451.4	383.0	353.6	383.0	441.9	479.8	450.4	420.9	458.8	441.9
72.5°	6452.3	2706.4	332.5	319.9	349.3	399.9	446.2	416.7	387.2	408.3	391.4
75°	5568.5	2155.0	290.4	286.2	311.5	362.0	408.3	387.2	357.8	366.2	357.8
77.5°	4221.6	1780.4	248.3	244.1	265.2	324.1	366.2	349.3	319.9	315.7	315.7
80°	1885.6	875.5	206.2	206.2	218.9	277.8	311.5	303.0	273.6	269.4	265.2
82.5°	618.7	332.5	168.4	159.9	176.8	231.5	277.8	269.4	239.9	231.5	223.1
85°	248.3	159.9	122.1	122.1	138.9	193.6	248.3	231.5	193.6	172.6	172.6
87.5°	84.2	67.3	63.1	63.1	88.4	130.5	185.2	155.7	138.9	122.1	126.3
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)