

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: P674955

Luminaire Tested: **CCW-SA-2E-727-U-T3**

Issue Date: 04/25/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P674955  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 04/25/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCW-SA-2E-727-U-T3  
Description: INVUE CLEAR CURVE Wall Pack MOUNT LIGHT SQUARE LUMINAIRE @1050mA w/  
T3 distribution lens  
Light Source: (32) 2700K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 11553.5 lumens  
Efficiency: N/A  
Efficacy: 108.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B2 - U0 - G2

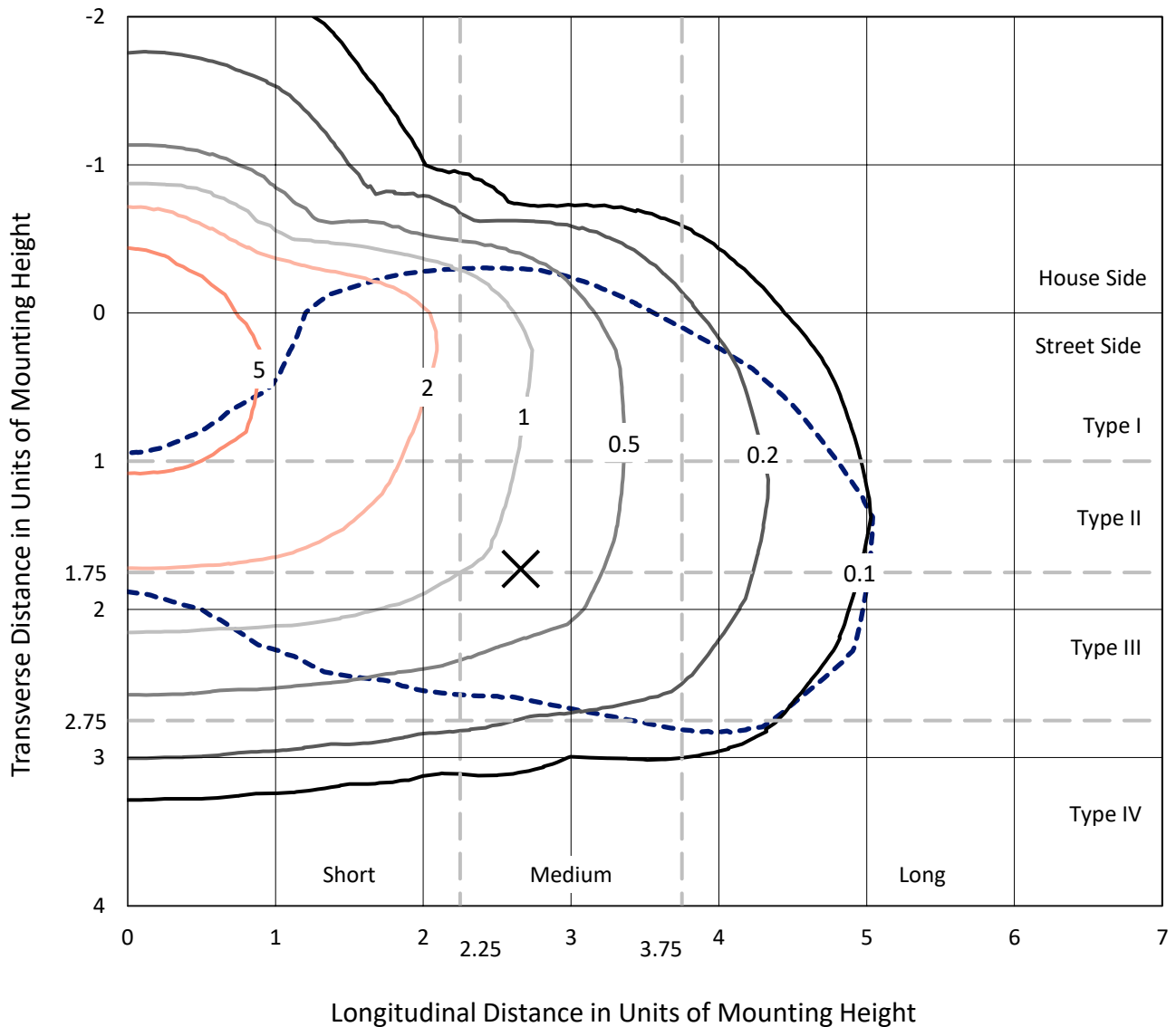
Input Watts (W): 106.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

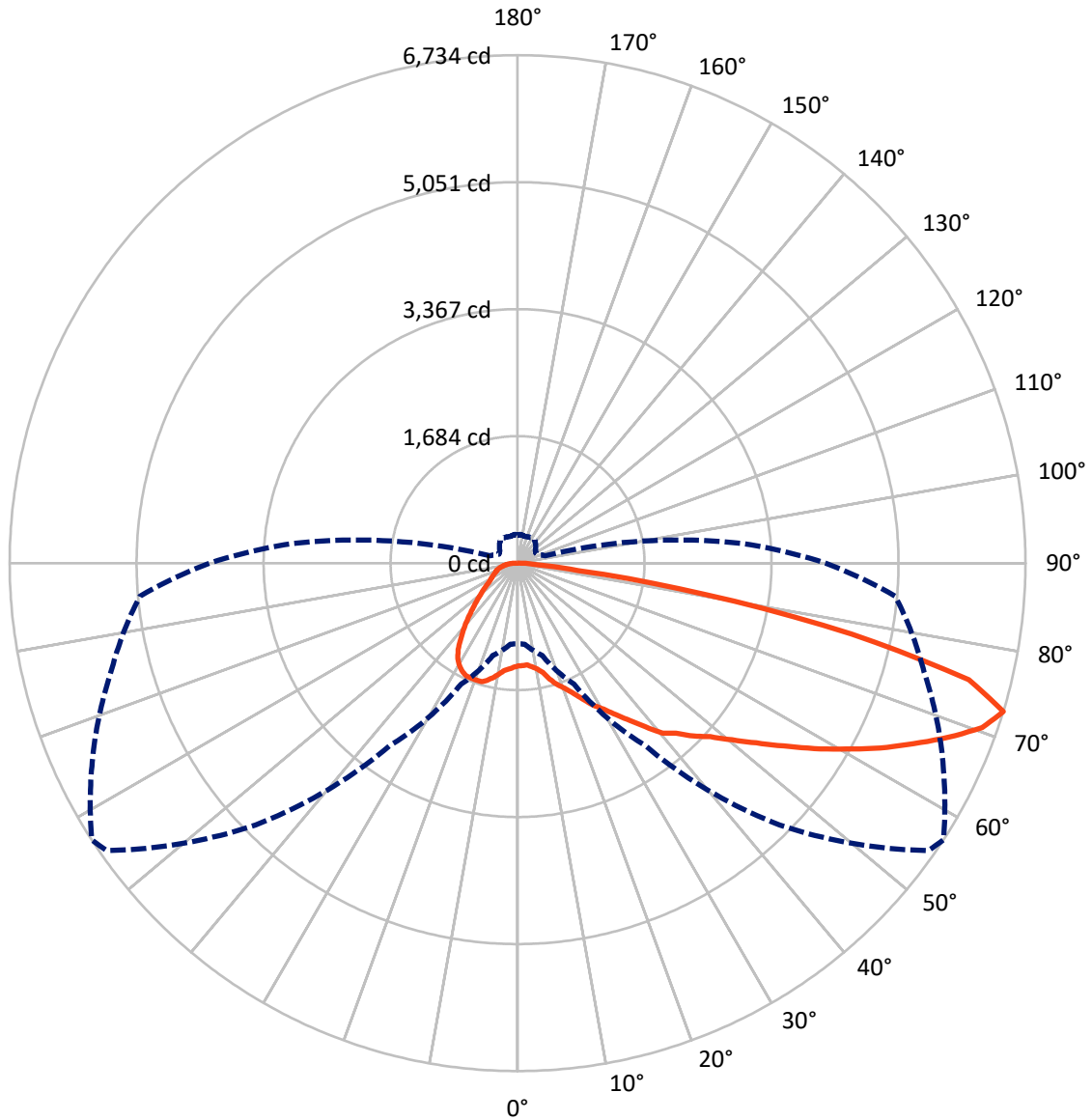
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 7 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral    - - - Horizontal Cone Through 72.5-Deg Vertical

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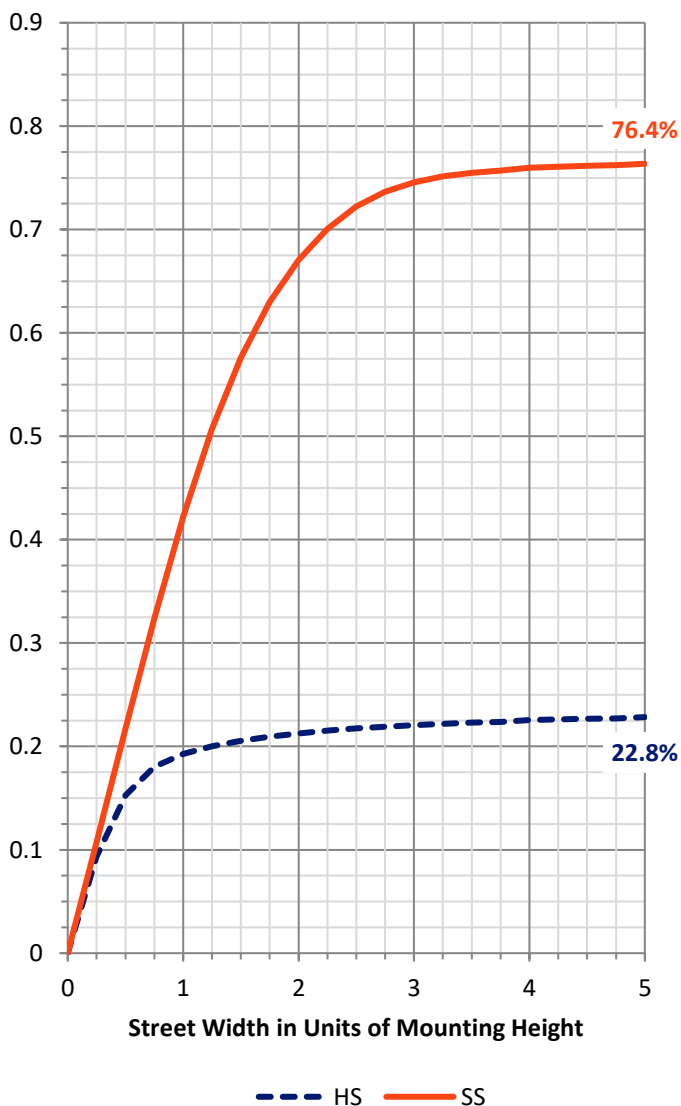
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2698.1	0.0	2698.1
	% Fixture	23.4	0.0	23.4
<b>Street Side</b>	Lumens	8855.4	0.0	8855.4
	% Fixture	76.6	0.0	76.6
<b>Total</b>	Lumens	11553.5	0.0	11553.5
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	135.4	1.2
10°-20°	456.2	3.9
20°-30°	834.0	7.2
30°-40°	1223.5	10.6
40°-50°	1684.6	14.6
50°-60°	2310.1	20.0
60°-70°	2784.7	24.1
70°-80°	1855.0	16.1
80°-90°	270.2	2.3
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°	11553.5	100.0
0°-180°	11553.5	100.0



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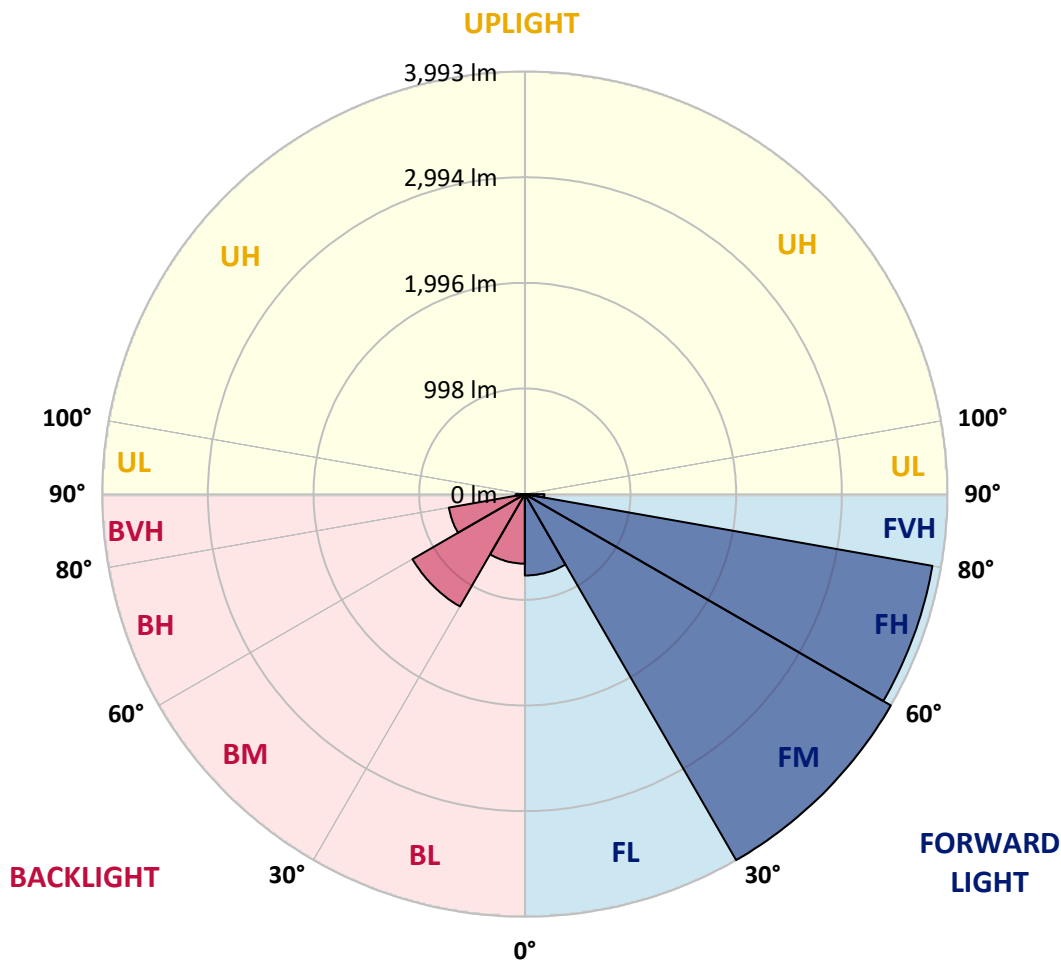
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	768.6	6.7			
FM (30°-60°)	3992.7	34.6			
FH (60°-80°)	3910.1	33.8			G2/5000
FVH (80°-90°)	184.0	1.6			G2/225
BL (0°-30°)	656.9	5.7	B2/1000		
BM (30°-60°)	1225.5	10.6	B2/2500		
BH (60°-80°)	729.5	6.3	B2/1000		G2/1000
BVH (80°-90°)	86.2	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-G2**

Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	1363.7	1363.7	1363.7	1363.7	1363.7	1363.7	1363.7	1363.7	1363.7	1363.7	1363.7
2.5°	1338.4	1342.6	1351.1	1346.8	1346.8	1334.2	1355.3	1359.5	1351.1	1355.3	1363.7
5°	1338.4	1346.8	1359.5	1351.1	1355.3	1351.1	1342.6	1355.3	1355.3	1359.5	1372.1
7.5°	1410.0	1405.8	1405.8	1393.1	1388.9	1384.7	1388.9	1388.9	1380.5	1384.7	1384.7
10°	1490.0	1490.0	1481.5	1481.5	1473.1	1452.1	1431.0	1426.8	1414.2	1418.4	1418.4
12.5°	1574.1	1582.5	1591.0	1565.7	1557.3	1523.6	1511.0	1485.7	1485.7	1477.3	1473.1
15°	1679.4	1666.7	1675.1	1666.7	1645.7	1612.0	1591.0	1595.2	1565.7	1557.3	1544.7
17.5°	1771.9	1776.2	1763.5	1755.1	1717.2	1692.0	1696.2	1692.0	1654.1	1641.5	1620.4
20°	1881.4	1877.2	1877.2	1851.9	1818.2	1784.6	1771.9	1767.7	1776.2	1750.9	1700.4
22.5°	1995.0	1978.2	1978.2	1957.1	1910.8	1889.8	1881.4	1864.5	1873.0	1851.9	1776.2
25°	2087.6	2087.6	2117.1	2075.0	2049.7	2007.6	1990.8	1995.0	1999.2	1957.1	1868.8
27.5°	2209.7	2188.6	2218.1	2197.0	2184.4	2138.1	2117.1	2129.7	2121.3	2075.0	1952.9
30°	2365.4	2369.6	2352.8	2323.3	2306.5	2272.8	2260.2	2247.6	2260.2	2201.3	2045.5
32.5°	2559.0	2571.6	2529.6	2495.9	2466.4	2432.7	2407.5	2394.9	2407.5	2319.1	2117.1
35°	2782.1	2794.7	2761.0	2723.2	2689.5	2605.3	2584.3	2563.2	2516.9	2373.8	2184.4
37.5°	2988.3	2971.5	2963.1	2963.1	2899.9	2777.9	2765.2	2752.6	2664.2	2483.3	2277.0
40°	3127.2	3148.3	3139.8	3131.4	3123.0	3009.4	2984.1	2963.1	2815.8	2647.4	2407.5
42.5°	3282.9	3270.3	3304.0	3316.6	3287.2	3253.5	3152.5	3080.9	2950.4	2815.8	2601.1
45°	3468.1	3459.7	3472.3	3518.6	3476.6	3489.2	3320.8	3270.3	3106.2	3026.2	2845.2
47.5°	3632.3	3653.3	3716.5	3729.1	3695.4	3754.3	3518.6	3438.7	3333.5	3270.3	3097.8
50°	3703.8	3729.1	3872.2	3960.6	3964.8	4057.4	3716.5	3682.8	3539.7	3564.9	3413.4
52.5°	3644.9	3724.9	3897.4	4128.9	4272.0	4364.6	3977.4	3960.6	3830.1	3910.1	3758.5
55°	3699.6	3775.4	3889.0	4213.1	4575.1	4596.1	4339.4	4276.2	4145.8	4255.2	4116.3
57.5°	3724.9	3682.8	3897.4	4305.7	4798.1	4852.9	4684.5	4638.2	4537.2	4642.4	4562.5
60°	3527.1	3577.6	3779.6	4280.5	4810.8	5126.4	5071.7	5004.4	4911.8	5008.6	4962.3
62.5°	3304.0	3337.7	3556.5	4128.9	4882.3	5324.3	5446.3	5395.8	5265.3	5349.5	5429.5
65°	3022.0	3026.2	3270.3	3859.6	4743.4	5437.9	5774.6	5770.4	5677.8	5656.8	5783.0
67.5°	2676.9	2710.5	2904.1	3573.4	4554.0	5564.2	6098.7	6161.8	5976.6	5812.5	5858.8
70°	2053.9	2087.6	2272.8	2929.4	4166.8	5526.3	6498.5	6532.2	6170.3	5753.6	5635.7
72.5°	1069.1	1077.5	1266.9	1767.7	2954.6	4907.6	6645.9	6734.2	6220.8	5581.0	5025.4
75°	353.5	353.5	433.5	673.4	1393.1	3139.8	6018.7	6178.7	5972.4	5151.7	4112.1
77.5°	210.4	214.7	256.7	336.7	555.6	1254.3	4242.6	4524.6	4886.5	4381.5	3005.2
80°	151.5	155.7	193.6	231.5	332.5	404.1	2129.7	2521.1	3000.9	2820.0	1603.6
82.5°	113.6	113.6	151.5	172.6	227.3	239.9	593.5	812.3	1296.3	1010.1	441.9
85°	117.8	117.8	117.8	122.1	155.7	138.9	248.3	265.2	378.8	332.5	122.1
87.5°	42.1	46.3	117.8	80.0	80.0	58.9	96.8	105.2	134.7	138.9	46.3
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°	1363.7	1363.7	1363.7	1363.7	1363.7	1363.7	1363.7	1363.7	1363.7	1363.7	1363.7
2.5°	1367.9	1367.9	1372.1	1372.1	1380.5	1388.9	1401.6	1393.1	1393.1	1397.4	1393.1
5°	1363.7	1367.9	1380.5	1401.6	1410.0	1414.2	1439.4	1439.4	1439.4	1447.9	1447.9
7.5°	1380.5	1388.9	1410.0	1431.0	1435.2	1447.9	1481.5	1490.0	1511.0	1519.4	1523.6
10°	1422.6	1435.2	1452.1	1477.3	1494.2	1511.0	1536.2	1565.7	1561.5	1586.8	1591.0
12.5°	1485.7	1481.5	1511.0	1536.2	1553.1	1578.3	1586.8	1586.8	1586.8	1586.8	1595.2
15°	1536.2	1544.7	1569.9	1586.8	1607.8	1603.6	1586.8	1569.9	1574.1	1569.9	1569.9
17.5°	1612.0	1612.0	1633.1	1637.3	1645.7	1603.6	1578.3	1578.3	1591.0	1591.0	1582.5
20°	1687.8	1683.6	1692.0	1687.8	1633.1	1582.5	1578.3	1582.5	1586.8	1582.5	1578.3
22.5°	1759.3	1750.9	1738.3	1721.4	1624.6	1578.3	1569.9	1548.9	1527.8	1527.8	1515.2
25°	1822.5	1814.0	1780.4	1729.9	1620.4	1553.1	1511.0	1460.5	1435.2	1422.6	1439.4
27.5°	1881.4	1864.5	1818.2	1729.9	1582.5	1485.7	1405.8	1342.6	1321.6	1304.8	1321.6
30°	1961.3	1931.9	1868.8	1717.2	1523.6	1380.5	1271.1	1195.3	1174.3	1149.0	1157.4
32.5°	2032.9	1965.6	1910.8	1679.4	1447.9	1262.7	1136.4	1060.6	1022.8	1001.7	1018.6
35°	2108.7	2041.3	1927.7	1620.4	1330.0	1119.6	993.3	921.7	892.3	862.8	862.8
37.5°	2184.4	2146.5	1952.9	1511.0	1186.9	984.9	871.2	816.5	766.0	711.3	711.3
40°	2344.4	2293.9	1982.4	1384.7	1043.8	854.4	774.4	702.9	652.4	576.6	572.4
42.5°	2512.7	2403.3	1982.4	1233.2	917.5	761.8	686.1	610.3	517.7	471.4	475.6
45°	2727.4	2601.1	1927.7	1098.5	791.3	686.1	601.9	505.1	463.0	433.5	433.5
47.5°	2996.7	2798.9	1860.3	951.2	690.3	618.7	513.5	454.6	425.1	399.8	395.6
50°	3316.6	2979.9	1776.2	824.9	606.1	555.6	467.2	420.9	395.6	378.8	378.8
52.5°	3653.3	3245.1	1717.2	711.3	538.7	471.4	433.5	404.1	383.0	370.4	366.2
55°	3994.2	3510.2	1675.1	589.2	475.6	433.5	425.1	399.8	391.4	378.8	370.4
57.5°	4377.3	3729.1	1666.7	505.1	425.1	416.7	433.5	412.5	399.8	387.2	374.6
60°	4789.7	4023.7	1591.0	437.7	399.8	408.3	420.9	399.8	391.4	378.8	370.4
62.5°	5198.0	4242.6	1384.7	387.2	374.6	383.0	399.8	383.0	370.4	374.6	378.8
65°	5366.4	4259.4	1073.3	349.3	345.1	349.3	374.6	370.4	357.8	383.0	383.0
67.5°	5198.0	4107.9	757.6	315.7	315.7	336.7	378.8	387.2	374.6	408.3	404.1
70°	4815.0	3733.3	513.5	294.6	303.0	357.8	391.4	383.0	366.2	408.3	399.8
72.5°	4086.8	2988.3	374.6	273.6	286.2	340.9	387.2	378.8	366.2	383.0	366.2
75°	3068.3	2125.5	294.6	248.3	252.5	307.2	399.8	378.8	345.1	336.7	324.1
77.5°	2049.7	1313.2	227.3	218.9	218.9	269.4	383.0	353.5	311.5	298.8	294.6
80°	976.5	526.1	181.0	185.2	189.4	231.5	349.3	315.7	282.0	265.2	265.2
82.5°	311.5	197.8	151.5	151.5	151.5	189.4	290.4	265.2	244.1	231.5	210.4
85°	109.4	109.4	130.5	134.7	122.1	138.9	239.9	227.3	202.0	168.4	164.1
87.5°	42.1	63.1	88.4	105.2	75.8	96.8	172.6	159.9	147.3	109.4	105.2
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)