

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: P674909

Luminaire Tested: **CCW-SA-2D-840-U-T2**

Issue Date: 04/25/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P674909  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 04/25/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCW-SA-2D-840-U-T2  
Description: INVUE CLEAR CURVE Wall Pack MOUNT LIGHT SQUARE LUMINAIRE @800mA w/  
T2 distribution lens  
Light Source: (32) 4000K CCT, 80 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

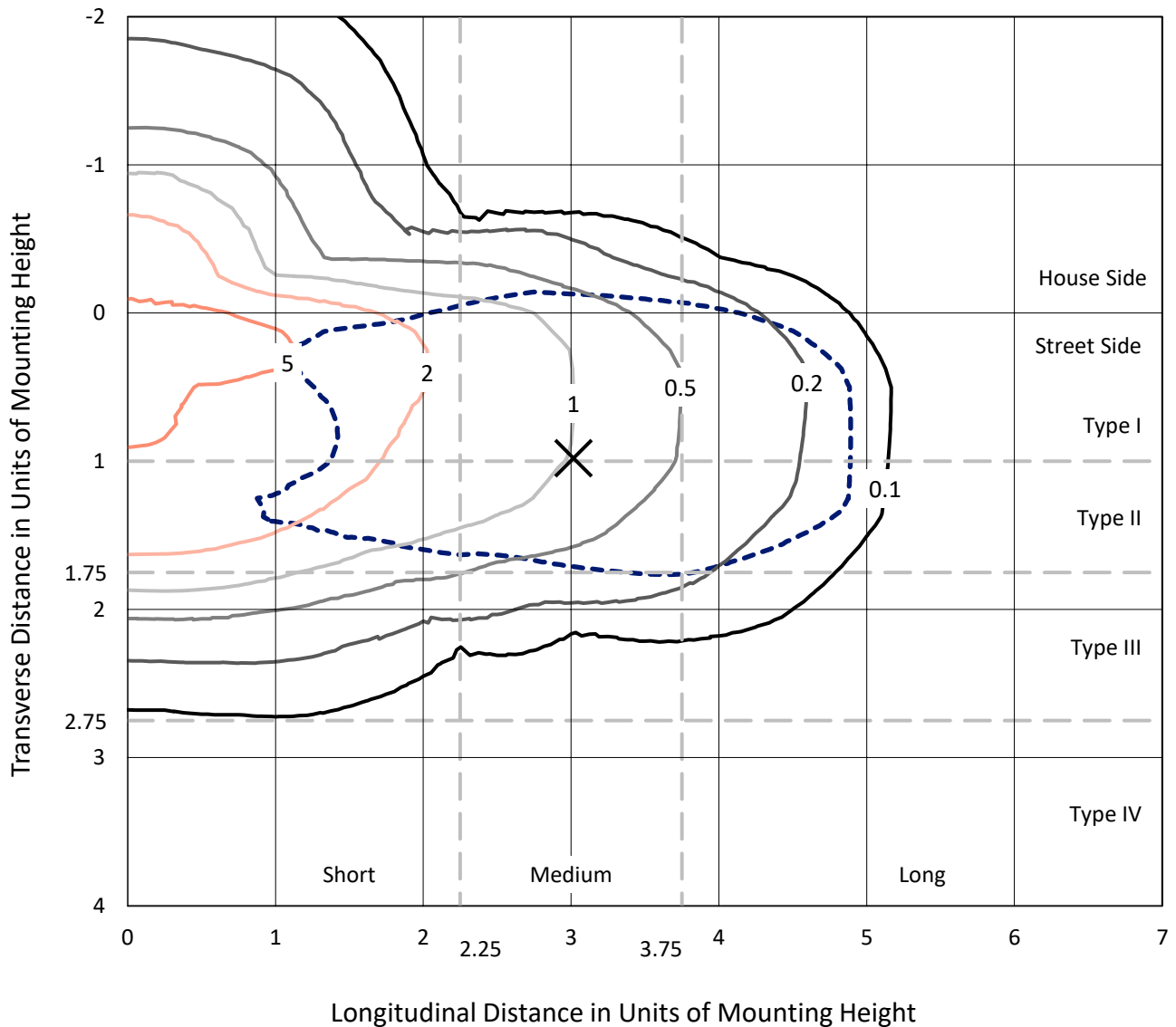
Lumens per Lamp: N/A  
Luminaire Lumens: 9485.1 lumens  
Efficiency: N/A  
Efficacy: 117.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B2 - U0 - G2

Input Watts (W): 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

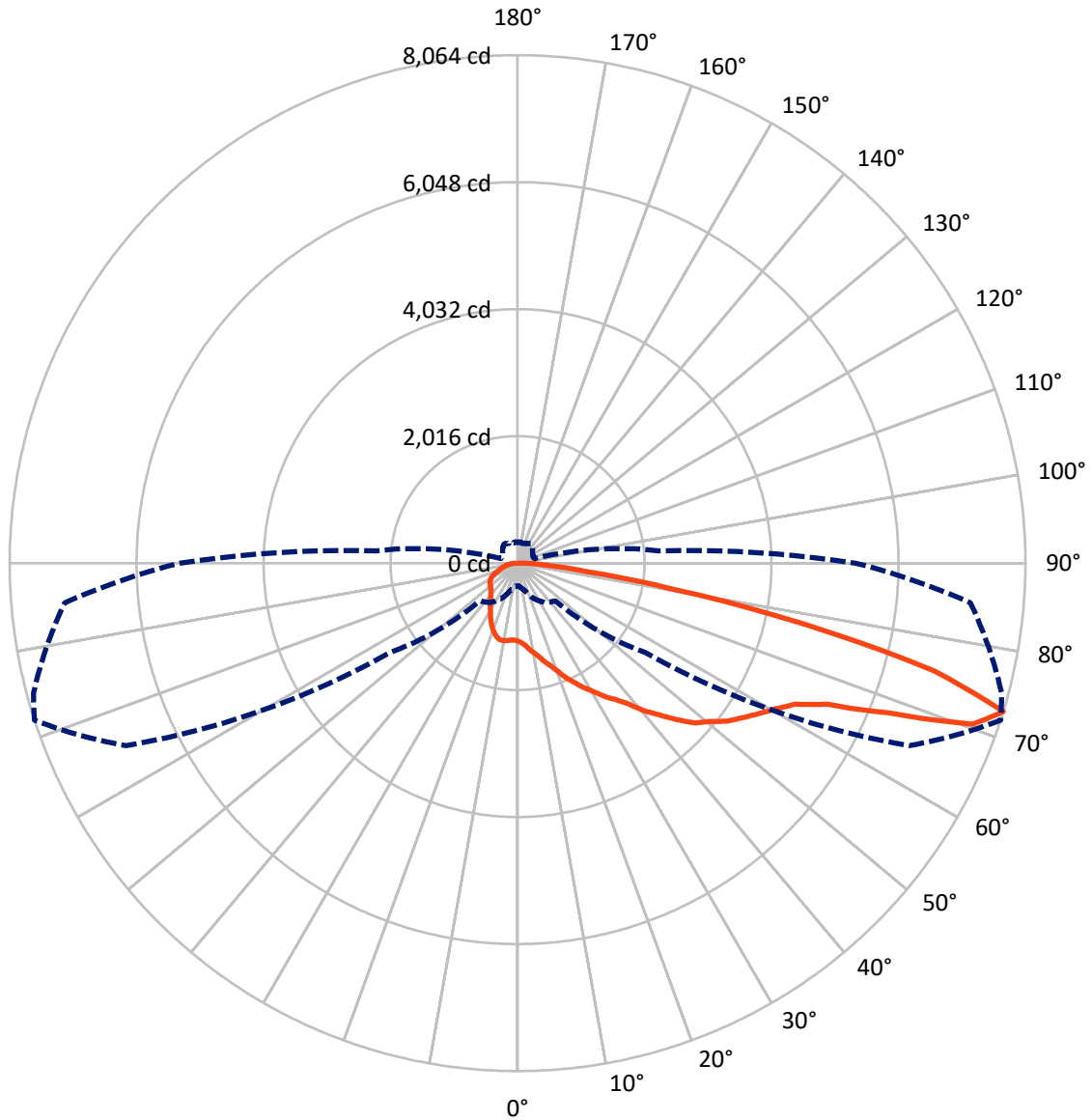
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 6.9 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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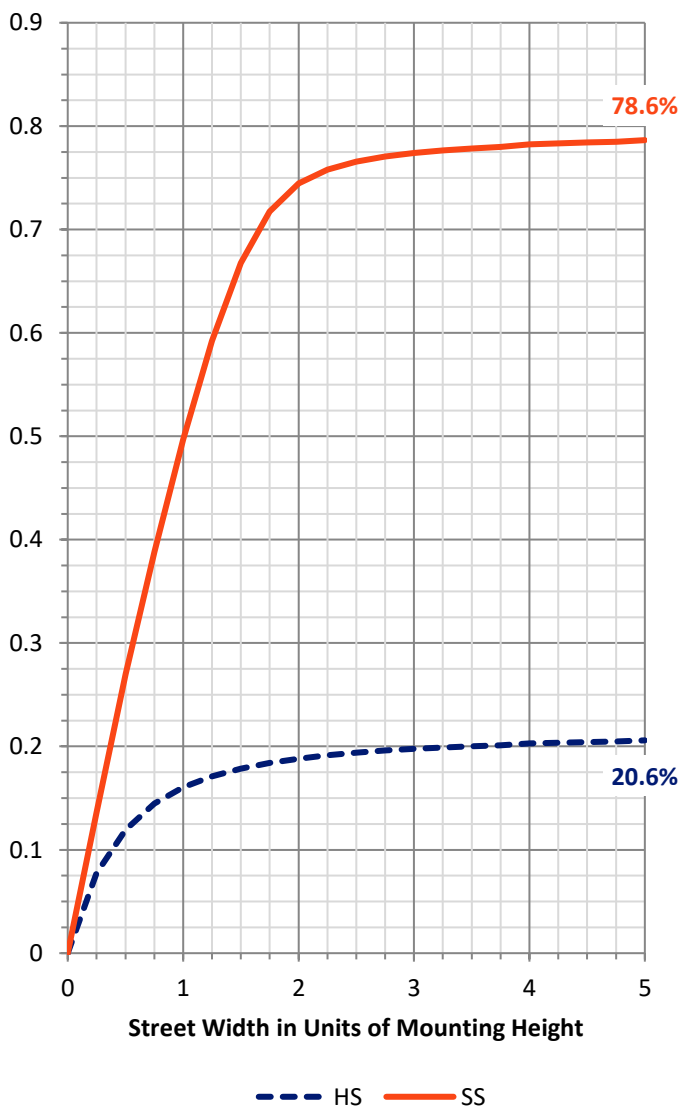
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1996.2	0.0	1996.2
	% Fixture	21.0	0.0	21.0
<b>Street Side</b>	Lumens	7488.9	0.0	7488.9
	% Fixture	79.0	0.0	79.0
<b>Total</b>	Lumens	9485.1	0.0	9485.1
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	122.5	1.3
10°-20°	380.6	4.0
20°-30°	658.6	6.9
30°-40°	972.9	10.3
40°-50°	1446.8	15.3
50°-60°	1983.4	20.9
60°-70°	2151.4	22.7
70°-80°	1516.8	16.0
80°-90°	252.0	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°	9485.1	100.0
0°-180°	9485.1	100.0



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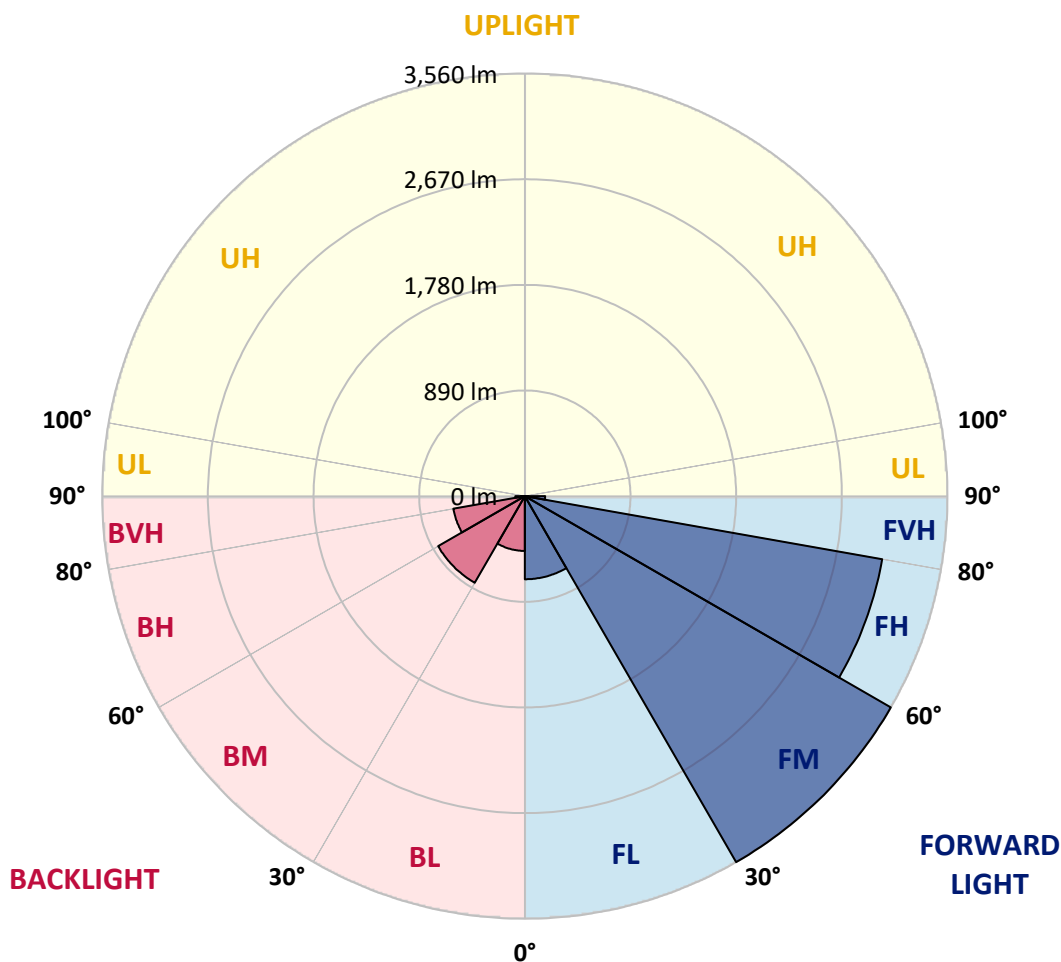
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	700.4	7.4			
FM (30°-60°)	3560.0	37.5			
FH (60°-80°)	3056.8	32.2			G2/5000
FVH (80°-90°)	171.8	1.8			G2/225
BL (0°-30°)	461.4	4.9	B1/500		
BM (30°-60°)	843.1	8.9	B1/1000		
BH (60°-80°)	611.5	6.4	B2/1000		G2/1000
BVH (80°-90°)	80.2	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°	1239.0	1239.0	1239.0	1239.0	1239.0	1239.0	1239.0	1239.0	1239.0	1239.0	1239.0
2.5°	1337.0	1337.0	1326.5	1323.0	1323.0	1295.0	1298.5	1281.0	1267.0	1267.0	1253.0
5°	1407.0	1400.0	1400.0	1400.0	1382.5	1372.0	1368.5	1337.0	1312.5	1316.0	1274.0
7.5°	1424.5	1428.0	1431.5	1449.0	1438.5	1445.5	1438.5	1403.5	1386.0	1368.5	1330.0
10°	1435.0	1442.0	1442.0	1466.5	1466.5	1484.0	1494.5	1480.5	1449.0	1431.5	1368.5
12.5°	1459.5	1449.0	1463.0	1480.5	1498.0	1529.5	1561.0	1547.0	1526.0	1505.0	1435.0
15°	1459.5	1463.0	1473.5	1501.5	1529.5	1561.0	1617.0	1638.0	1627.5	1589.0	1515.5
17.5°	1417.5	1407.0	1456.0	1508.5	1561.0	1599.5	1673.0	1722.0	1715.0	1701.0	1589.0
20°	1421.0	1431.5	1449.0	1494.5	1578.5	1648.5	1739.5	1820.0	1837.5	1830.5	1687.0
22.5°	1484.0	1487.5	1505.0	1526.0	1592.5	1683.5	1820.0	1949.5	1981.0	1963.5	1795.5
25°	1547.0	1575.0	1575.0	1589.0	1613.5	1708.0	1872.5	2054.5	2100.0	2103.5	1907.5
27.5°	1648.5	1655.5	1676.5	1683.5	1704.5	1760.5	1932.0	2131.5	2236.5	2222.5	2009.0
30°	1767.5	1771.0	1785.0	1778.0	1781.5	1851.5	1988.0	2219.0	2362.5	2366.0	2117.5
32.5°	1907.5	1935.5	1942.5	1897.0	1904.0	1921.5	2075.5	2324.0	2520.0	2495.5	2212.0
35°	2114.0	2124.5	2103.5	2082.5	2030.0	2019.5	2166.5	2429.0	2656.5	2684.5	2352.0
37.5°	2369.5	2397.5	2369.5	2257.5	2201.5	2159.5	2278.5	2544.5	2821.1	2915.6	2492.0
40°	2607.5	2604.0	2576.0	2474.5	2376.5	2345.0	2439.5	2705.5	3076.6	3167.6	2695.0
42.5°	2800.1	2789.6	2772.1	2695.0	2604.0	2551.5	2625.0	2873.6	3290.1	3465.1	2929.6
45°	2968.1	2954.1	2957.6	2870.1	2782.6	2810.6	2810.6	3066.1	3542.1	3759.1	3199.1
47.5°	3125.6	3132.6	3122.1	3055.6	2989.1	3062.6	3024.1	3286.6	3790.6	4032.1	3426.6
50°	3307.6	3321.6	3286.6	3244.6	3185.1	3258.6	3209.6	3493.1	3951.6	4280.6	3699.6
52.5°	3479.1	3493.1	3524.6	3472.1	3412.6	3472.1	3360.1	3685.6	4165.1	4522.1	3909.6
55°	3521.1	3514.1	3689.1	3745.1	3776.6	3598.1	3493.1	3850.1	4333.1	4676.1	4147.6
57.5°	3328.6	3346.1	3584.1	3745.1	4081.1	3927.1	3643.6	4042.6	4508.1	4879.1	4368.1
60°	2849.1	2859.6	3157.1	3538.6	4028.6	4235.1	4049.6	4291.1	4700.6	5050.6	4616.6
62.5°	1904.0	1984.5	2355.5	2954.1	3657.6	4319.1	4697.1	4711.1	4935.1	5267.6	4956.1
65°	1004.5	1043.0	1333.5	1816.5	2772.1	4028.6	5306.1	5544.1	5404.1	5666.6	5446.1
67.5°	658.0	672.0	829.5	1102.5	1599.5	2940.1	5376.1	6989.6	6345.6	6426.1	6230.1
70°	490.0	497.0	612.5	815.5	990.5	1571.5	4406.6	7665.1	7661.6	7448.1	7161.1
72.5°	360.5	371.0	451.5	623.0	763.0	847.0	2478.0	6856.6	8064.1	7955.6	7217.1
75°	283.5	290.5	332.5	483.0	616.0	556.5	1256.5	5078.6	6839.1	7360.6	6604.6
77.5°	231.0	238.0	262.5	350.0	493.5	430.5	602.0	3276.1	4637.6	5299.1	5054.1
80°	192.5	192.5	210.0	248.5	381.5	325.5	357.0	1841.0	2499.0	2758.1	2292.5
82.5°	164.5	161.0	175.0	182.0	283.5	234.5	231.0	833.0	1099.0	1165.5	861.0
85°	105.0	108.5	164.5	157.5	185.5	161.0	129.5	395.5	518.0	528.5	322.0
87.5°	42.0	42.0	70.0	87.5	105.0	98.0	63.0	178.5	227.5	227.5	91.0
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°	1239.0	1239.0	1239.0	1239.0	1239.0	1239.0	1239.0	1239.0	1239.0	1239.0	1239.0
2.5°	1249.5	1235.5	1225.0	1218.0	1200.5	1183.0	1186.5	1183.0	1169.0	1162.0	1162.0
5°	1263.5	1249.5	1232.0	1204.0	1186.5	1165.5	1172.5	1158.5	1144.5	1155.0	1137.5
7.5°	1298.5	1274.0	1249.5	1207.5	1179.5	1148.0	1134.0	1127.0	1116.5	1109.5	1109.5
10°	1347.5	1312.5	1267.0	1204.0	1158.5	1109.5	1102.5	1088.5	1078.0	1078.0	1074.5
12.5°	1396.5	1358.0	1281.0	1179.5	1102.5	1067.5	1064.0	1067.5	1074.5	1078.0	1081.5
15°	1459.5	1396.5	1277.5	1134.0	1057.0	1043.0	1060.5	1074.5	1088.5	1102.5	1099.0
17.5°	1519.0	1445.5	1246.0	1078.0	1018.5	1022.0	1053.5	1081.5	1109.5	1123.5	1127.0
20°	1599.5	1491.0	1200.5	1011.5	980.0	1011.5	1053.5	1088.5	1120.0	1137.5	1141.0
22.5°	1690.5	1543.5	1141.0	952.0	948.5	980.0	1022.0	1074.5	1109.5	1141.0	1137.5
25°	1771.0	1578.5	1064.0	903.0	910.0	931.0	980.0	1036.0	1071.0	1106.0	1095.5
27.5°	1823.5	1585.5	983.5	868.0	868.0	889.0	934.5	969.5	1001.0	1029.0	1032.5
30°	1883.0	1571.5	892.5	822.5	822.5	850.5	868.0	889.0	906.5	913.5	920.5
32.5°	1953.0	1540.0	836.5	787.5	787.5	808.5	819.0	812.0	808.5	791.0	801.5
35°	2019.5	1494.5	773.5	742.0	756.0	766.5	763.0	742.0	721.0	689.5	679.0
37.5°	2100.0	1449.0	717.5	693.0	717.5	721.0	721.0	696.5	668.5	630.0	630.0
40°	2222.5	1414.0	672.0	661.5	686.0	682.5	665.0	647.5	658.0	637.0	637.0
42.5°	2352.0	1400.0	630.0	633.5	644.0	647.5	630.0	609.0	651.0	626.5	630.0
45°	2513.0	1410.5	602.0	598.5	623.0	619.5	609.0	591.5	605.5	542.5	525.0
47.5°	2663.5	1431.5	588.0	574.0	602.0	609.0	595.0	556.5	535.5	497.0	490.0
50°	2800.1	1477.0	574.0	546.0	574.0	588.0	563.5	521.5	497.0	472.5	472.5
52.5°	2929.6	1543.5	567.0	514.5	539.0	556.5	542.5	500.5	472.5	462.0	451.5
55°	3062.6	1603.0	556.5	493.5	500.5	535.5	532.0	476.0	448.0	448.0	444.5
57.5°	3251.6	1683.5	542.5	458.5	472.5	511.0	511.0	465.5	434.0	437.5	441.0
60°	3444.1	1778.0	528.5	423.5	434.0	486.5	493.5	451.5	423.5	427.0	423.5
62.5°	3752.1	1953.0	500.5	381.5	402.5	455.0	472.5	434.0	409.5	416.5	416.5
65°	4217.6	2254.0	441.0	346.5	371.0	427.0	451.5	416.5	388.5	409.5	402.5
67.5°	4966.6	2667.0	371.0	318.5	350.0	399.0	427.0	395.5	371.0	402.5	392.0
70°	5638.6	2870.1	318.5	294.0	318.5	367.5	399.0	374.5	350.0	381.5	367.5
72.5°	5365.6	2250.5	276.5	266.0	290.5	332.5	371.0	346.5	322.0	339.5	325.5
75°	4630.6	1792.0	241.5	238.0	259.0	301.0	339.5	322.0	297.5	304.5	297.5
77.5°	3510.6	1480.5	206.5	203.0	220.5	269.5	304.5	290.5	266.0	262.5	262.5
80°	1568.0	728.0	171.5	171.5	182.0	231.0	259.0	252.0	227.5	224.0	220.5
82.5°	514.5	276.5	140.0	133.0	147.0	192.5	231.0	224.0	199.5	192.5	185.5
85°	206.5	133.0	101.5	101.5	115.5	161.0	206.5	192.5	161.0	143.5	143.5
87.5°	70.0	56.0	52.5	52.5	73.5	108.5	154.0	129.5	115.5	101.5	105.0
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)