

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: P675341

Luminaire Tested: **CCW-SA-2D-840-U-T4W**

Issue Date: 04/25/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P675341  
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-T4W  
Description: INVUE CLEAR CURVE Wall Pack MOUNT LIGHT SQUARE LUMINAIRE @800mA w/  
T4W distribution lens  
Light Source: (32) 4000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

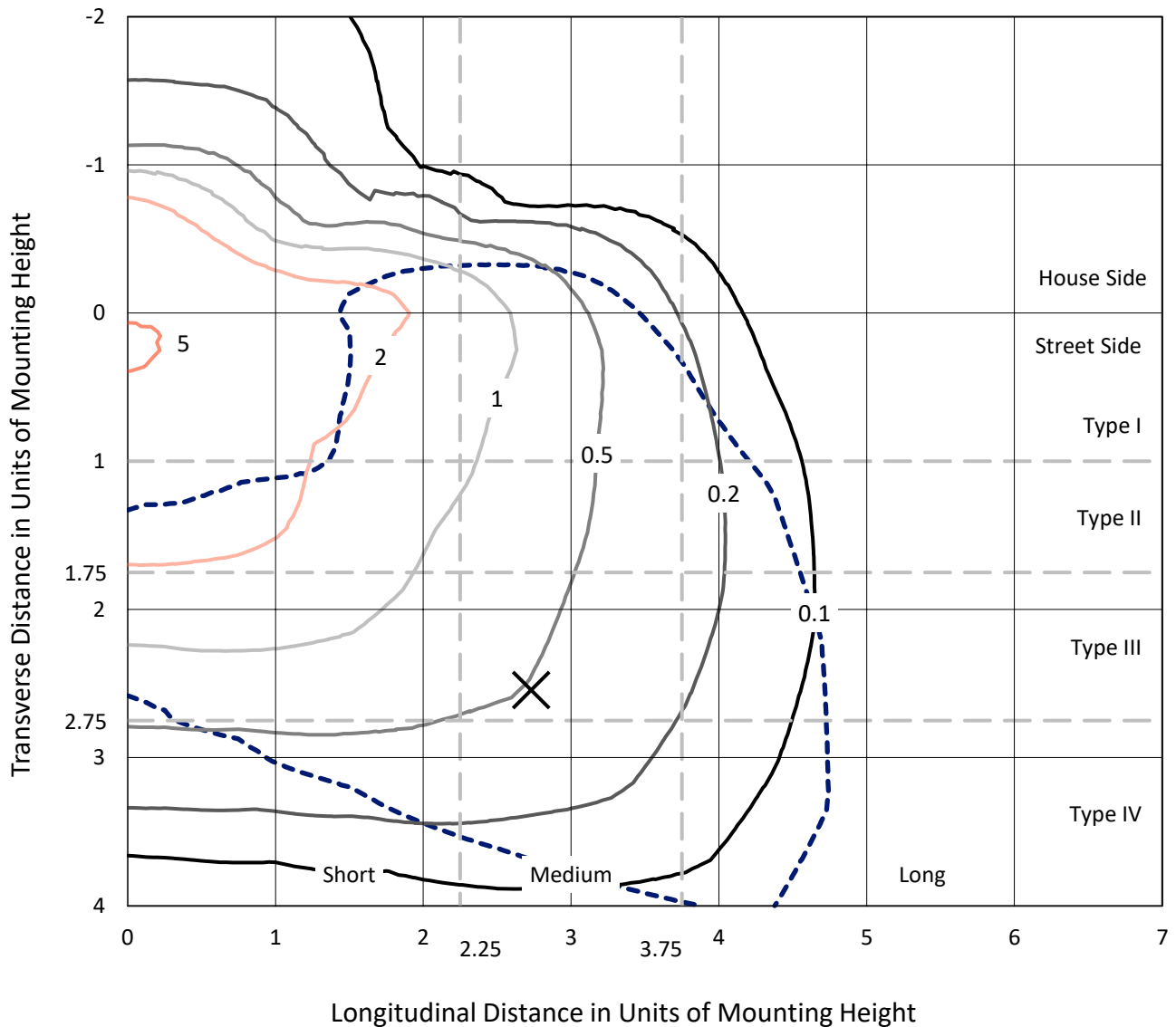
Lumens per Lamp: N/A  
Luminaire Lumens: 9592.8 lumens  
Efficiency: N/A  
Efficacy: 118.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B2 - U0 - G3

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

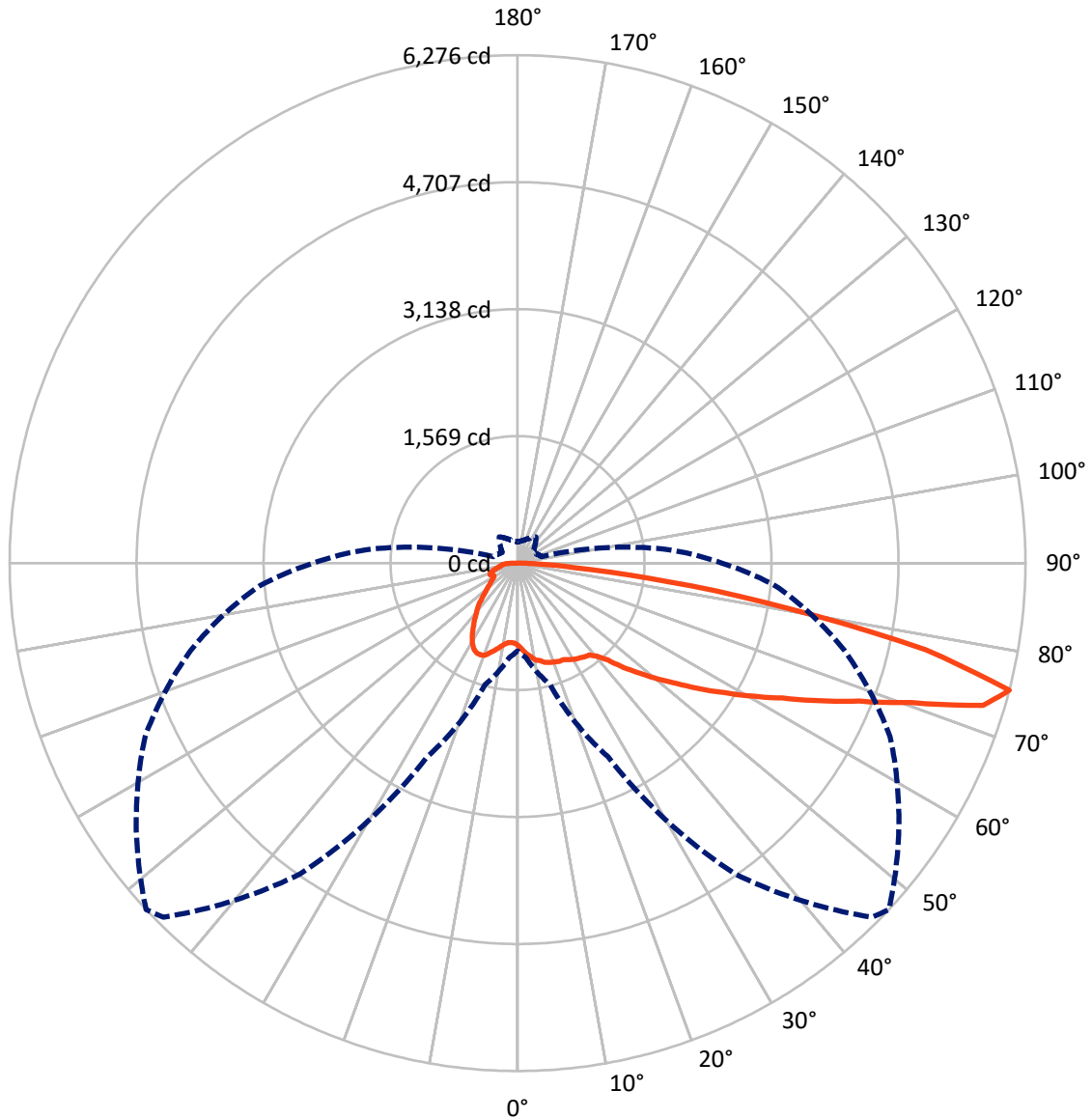
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 5.8 fc  
 Type IV - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral      - - - Horizontal Cone Through 75-Deg Vertical

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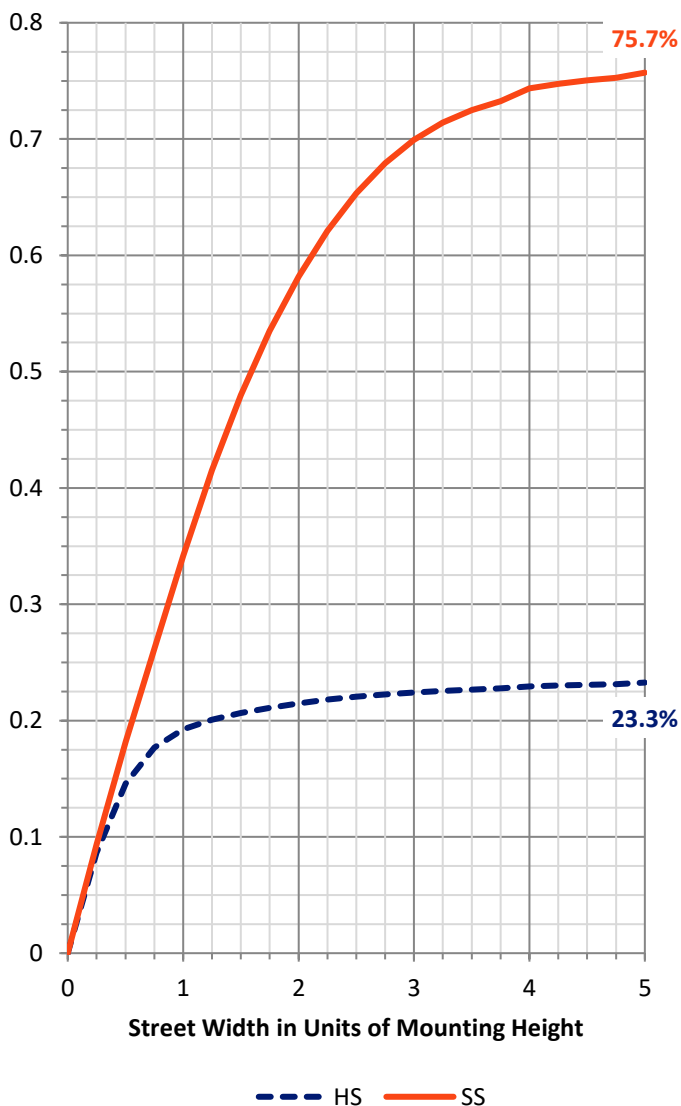
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2294.1	0.0	2294.1
	% Fixture	23.9	0.0	23.9
<b>Street Side</b>	Lumens	7298.7	0.0	7298.7
	% Fixture	76.1	0.0	76.1
<b>Total</b>	Lumens	9592.8	0.0	9592.8
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	103.0	1.1
10°-20°	342.0	3.6
20°-30°	585.7	6.1
30°-40°	819.5	8.5
40°-50°	1142.6	11.9
50°-60°	1707.9	17.8
60°-70°	2462.3	25.7
70°-80°	2096.0	21.8
80°-90°	333.9	3.5
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°	9592.8	100.0
0°-180°	9592.8	100.0



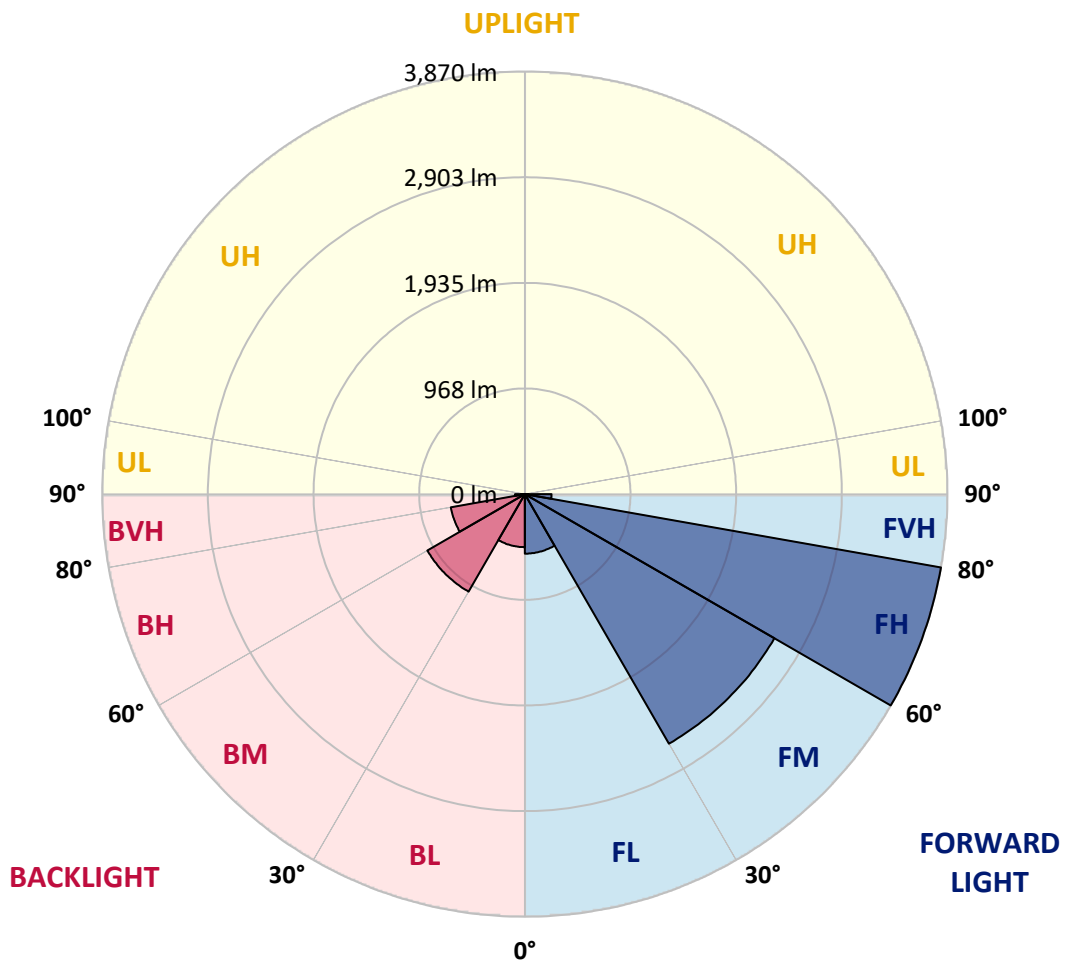
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	545.0	5.7			
FM (30°-60°)	2638.9	27.5			
FH (60°-80°)	3870.1	40.3			G2/5000
FVH (80°-90°)	244.6	2.6			G3/500
BL (0°-30°)	485.6	5.1	B1/500		
BM (30°-60°)	1031.0	10.7	B2/2500		
BH (60°-80°)	688.2	7.2	B2/1000		G2/1000
BVH (80°-90°)	89.2	0.9			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G3**

Type IV Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	1018.5	1018.5	1018.5	1018.5	1018.5	1018.5	1018.5	1018.5	1018.5	1018.5	1018.5
2.5°	1092.1	1095.6	1095.6	1088.6	1081.6	1067.6	1067.6	1053.6	1046.6	1029.0	1022.0
5°	1193.6	1183.1	1172.6	1169.1	1151.6	1127.1	1123.6	1109.6	1071.1	1053.6	1029.0
7.5°	1267.1	1263.6	1260.1	1246.1	1214.6	1176.1	1165.6	1144.6	1106.1	1071.1	1043.1
10°	1326.6	1340.6	1326.6	1295.1	1263.6	1221.6	1218.1	1179.6	1144.6	1102.6	1067.6
12.5°	1393.1	1396.6	1372.1	1333.6	1284.6	1249.6	1235.6	1221.6	1183.1	1148.1	1095.6
15°	1438.6	1431.6	1414.1	1361.6	1305.6	1270.6	1274.1	1256.6	1214.6	1190.1	1134.1
17.5°	1438.6	1438.6	1410.6	1372.1	1323.1	1291.6	1291.6	1281.1	1253.1	1218.1	1179.6
20°	1410.6	1410.6	1393.1	1372.1	1316.1	1309.1	1302.1	1295.1	1295.1	1263.6	1207.6
22.5°	1375.6	1368.6	1375.6	1340.6	1302.1	1309.1	1319.6	1316.1	1305.6	1277.6	1239.1
25°	1340.6	1344.1	1351.1	1326.6	1291.6	1323.1	1319.6	1337.1	1330.1	1309.1	1277.6
27.5°	1337.1	1344.1	1347.6	1323.1	1309.1	1337.1	1351.1	1368.6	1372.1	1351.1	1312.6
30°	1389.6	1386.1	1382.6	1351.1	1340.6	1365.1	1379.1	1403.6	1424.6	1379.1	1347.6
32.5°	1526.1	1505.1	1484.1	1400.1	1368.6	1386.1	1400.1	1435.1	1438.6	1414.1	1368.6
35°	1743.1	1729.1	1659.1	1512.1	1424.6	1407.1	1421.1	1445.6	1452.6	1435.1	1400.1
37.5°	1991.6	1984.6	1886.6	1708.1	1540.1	1456.1	1442.1	1477.1	1505.1	1466.6	1417.6
40°	2236.6	2208.6	2138.6	1963.6	1687.1	1529.6	1512.1	1529.6	1540.1	1512.1	1480.6
42.5°	2457.1	2425.6	2408.1	2233.1	1879.6	1652.1	1638.1	1596.1	1627.6	1592.6	1550.6
45°	2642.6	2635.6	2628.6	2478.1	2100.1	1851.6	1841.1	1732.6	1767.6	1739.6	1680.1
47.5°	2775.6	2807.1	2796.6	2712.6	2352.1	2065.1	2033.6	1893.6	1946.1	1918.1	1858.6
50°	2933.1	2950.6	2940.1	2884.1	2586.6	2310.1	2250.6	2107.1	2166.6	2163.1	2131.6
52.5°	3073.1	3125.7	3066.1	3062.6	2922.6	2576.1	2474.6	2338.1	2436.1	2474.6	2471.1
55°	3237.7	3279.7	3262.2	3255.2	3223.7	2835.1	2744.1	2579.6	2744.1	2800.1	2849.1
57.5°	3377.7	3374.2	3440.7	3521.2	3559.7	3132.7	3024.1	2831.6	3080.1	3143.2	3279.7
60°	3440.7	3500.2	3612.2	3815.2	3923.7	3451.2	3339.2	3185.2	3419.7	3468.7	3720.7
62.5°	3482.7	3535.2	3752.2	4095.2	4158.2	3776.7	3671.7	3517.7	3790.7	3825.7	4200.2
65°	3367.2	3416.2	3846.7	4200.2	4424.2	4126.7	4102.2	3941.2	4161.7	4182.7	4704.2
67.5°	3234.2	3286.7	3766.2	4333.2	4777.7	4592.2	4553.7	4361.2	4529.2	4504.7	5089.2
70°	2999.6	3069.6	3559.7	4448.7	5169.7	5243.3	5166.2	4893.2	4910.7	4679.7	5106.7
72.5°	2285.6	2331.1	2786.1	3990.2	5351.8	6146.3	6013.3	5467.3	5267.8	4714.7	4508.2
75°	1085.1	1169.1	1554.1	2639.1	4690.2	6188.3	6275.8	5750.8	5078.7	4182.7	3195.7
77.5°	315.0	315.0	472.5	1120.1	2940.1	4987.7	5152.2	4882.7	4189.7	3097.6	1680.1
80°	171.5	182.0	248.5	395.5	1291.6	3146.7	3384.7	3237.7	2467.6	1225.1	434.0
82.5°	98.0	101.5	164.5	238.0	588.0	1711.6	1851.6	1680.1	938.0	371.0	203.0
85°	56.0	59.5	94.5	157.5	350.0	630.0	686.0	595.0	378.0	248.5	101.5
87.5°	28.0	28.0	45.5	73.5	178.5	178.5	175.0	213.5	227.5	150.5	45.5
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°	1018.5	1018.5	1018.5	1018.5	1018.5	1018.5	1018.5	1018.5	1018.5	1018.5	1018.5
2.5°	1018.5	1015.0	1015.0	1001.0	997.5	987.0	987.0	980.0	976.5	987.0	987.0
5°	1022.0	1004.5	1001.0	987.0	990.5	983.5	997.5	990.5	987.0	987.0	983.5
7.5°	1029.0	1011.5	997.5	987.0	983.5	994.0	1011.5	1011.5	1032.5	1022.0	1022.0
10°	1046.6	1036.0	1018.5	1011.5	1011.5	1022.0	1043.1	1057.1	1074.6	1074.6	1064.1
12.5°	1088.6	1071.1	1050.1	1039.5	1053.6	1064.1	1085.1	1099.1	1120.1	1127.1	1120.1
15°	1120.1	1102.6	1095.6	1088.6	1099.1	1113.1	1130.6	1144.6	1169.1	1176.1	1172.6
17.5°	1162.1	1141.1	1137.6	1141.1	1148.1	1158.6	1169.1	1179.6	1197.1	1197.1	1197.1
20°	1183.1	1176.1	1172.6	1183.1	1197.1	1211.1	1204.1	1197.1	1193.6	1200.6	1197.1
22.5°	1221.6	1214.6	1218.1	1228.6	1228.6	1221.6	1211.1	1186.6	1179.6	1186.6	1179.6
25°	1256.6	1249.6	1249.6	1242.6	1239.1	1214.6	1193.6	1172.6	1148.1	1158.6	1155.1
27.5°	1291.6	1288.1	1288.1	1260.1	1225.1	1183.1	1155.1	1130.6	1116.6	1134.1	1123.6
30°	1333.6	1337.1	1319.6	1253.1	1169.1	1123.6	1092.1	1088.6	1085.1	1095.6	1092.1
32.5°	1372.1	1375.6	1347.6	1242.6	1127.1	1039.5	1008.0	1011.5	1029.0	1046.6	1064.1
35°	1393.1	1410.6	1375.6	1207.6	1043.1	945.0	910.0	941.5	973.0	997.5	1015.0
37.5°	1431.6	1477.1	1417.6	1169.1	969.5	861.0	836.5	847.0	885.5	924.0	941.5
40°	1487.6	1540.1	1428.1	1095.6	871.5	777.0	763.0	766.5	780.5	805.0	822.5
42.5°	1585.6	1641.6	1438.6	1001.0	773.5	724.5	686.0	675.5	665.0	665.0	661.5
45°	1729.1	1781.6	1424.6	882.0	675.5	640.5	612.5	588.0	560.0	514.5	521.5
47.5°	1939.1	1981.1	1435.1	777.0	584.5	556.5	535.5	507.5	465.5	416.5	413.0
50°	2257.6	2194.6	1421.1	668.5	518.0	493.5	476.0	437.5	388.5	353.5	350.0
52.5°	2628.6	2502.6	1407.1	577.5	462.0	441.0	427.0	385.0	339.5	322.0	318.5
55°	3076.6	2894.6	1428.1	497.0	420.0	402.5	388.5	350.0	315.0	301.0	297.5
57.5°	3605.2	3318.2	1543.6	434.0	374.5	367.5	364.0	332.5	301.0	290.5	287.0
60°	4102.2	3724.2	1620.6	388.5	332.5	339.5	346.5	332.5	297.5	290.5	290.5
62.5°	4518.7	4060.2	1498.1	350.0	311.5	332.5	364.0	353.5	339.5	346.5	339.5
65°	4886.2	4175.7	1120.1	329.0	301.0	350.0	402.5	399.0	367.5	374.5	371.0
67.5°	4949.2	4035.7	731.5	311.5	294.0	385.0	451.5	409.5	346.5	346.5	336.0
70°	4686.7	3661.2	490.0	294.0	290.5	385.0	462.0	385.0	325.5	325.5	311.5
72.5°	3846.7	2926.1	378.0	276.5	266.0	343.0	437.5	364.0	304.5	297.5	273.0
75°	2527.1	1886.6	308.0	262.5	231.0	301.0	395.5	336.0	290.5	269.5	259.0
77.5°	1239.1	847.0	259.0	231.0	199.5	262.5	360.5	318.5	273.0	252.0	245.0
80°	339.5	304.5	217.0	203.0	168.0	227.5	339.5	304.5	255.5	234.5	224.0
82.5°	192.5	189.0	175.0	164.5	140.0	227.5	343.0	304.5	241.5	238.0	203.0
85°	105.0	112.0	126.0	122.5	108.5	203.0	325.5	266.0	196.0	164.5	164.5
87.5°	42.0	52.5	63.0	70.0	73.5	150.5	245.0	203.0	150.5	126.0	126.0
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)