

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: P675053

Luminaire Tested: **CCW-SA-2D-840-U-T3**

Issue Date: 04/25/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P675053  
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-T3  
Description: INVUE CLEAR CURVE Wall Pack MOUNT LIGHT SQUARE LUMINAIRE @800mA w/  
T3 distribution lens  
Light Source: (32) 4000K CCT, 80 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

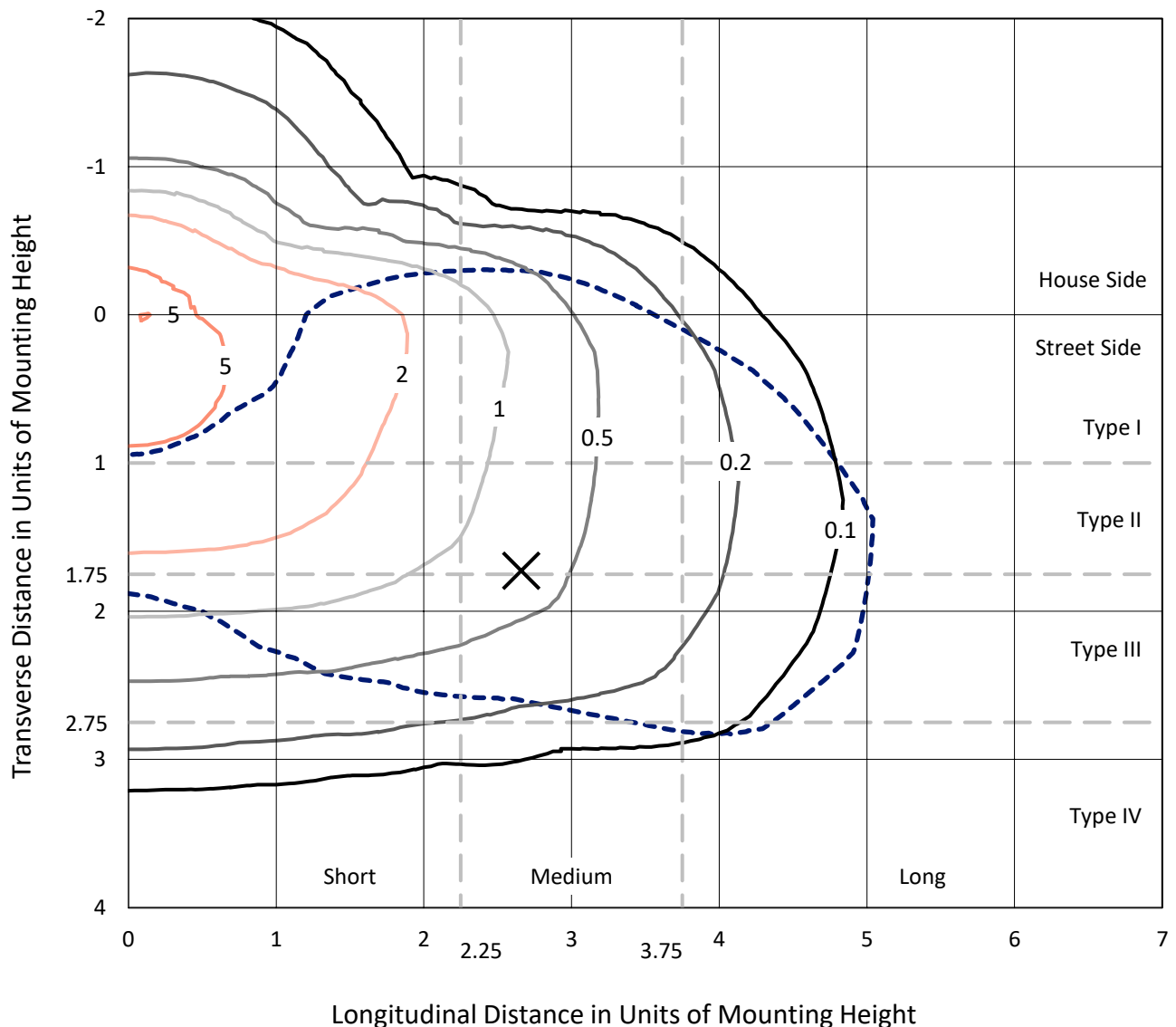
Lumens per Lamp: N/A  
Luminaire Lumens: 9607.6 lumens  
Efficiency: N/A  
Efficacy: 118.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B2 - U0 - G2

Input Watts (W): 80.8  
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

REPORT NUMBER: P675053  
 CATALOG NUMBER: CCW-SA-2D-840-U-T3

### Iso-Footcandle Lines of Horizontal Illumination

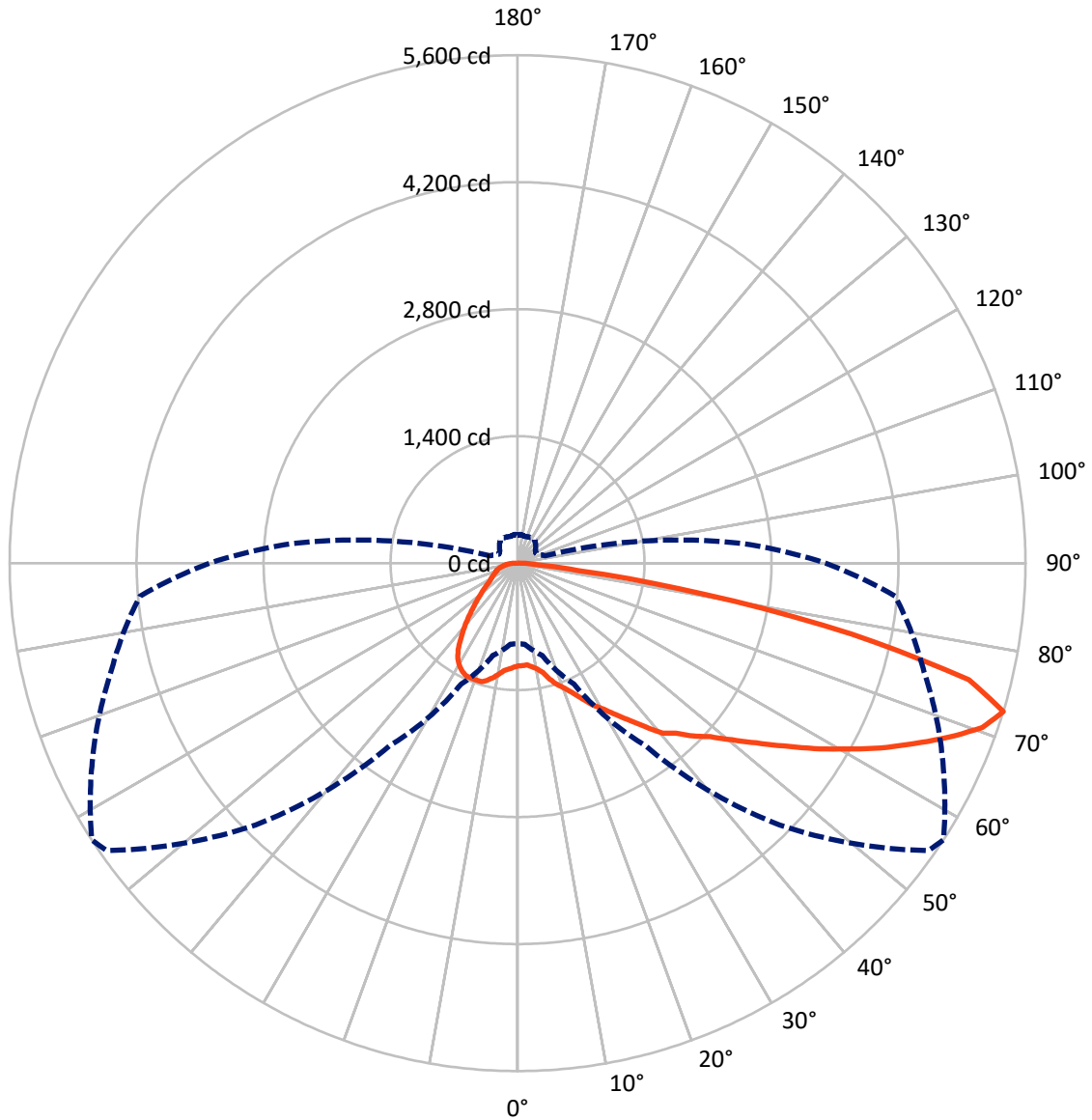
× Max cd  
 - - - 1/2 Max cd



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

REPORT NUMBER: P675053  
CATALOG NUMBER: CCW-SA-2D-840-U-T3

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P675053  
 CATALOG NUMBER: CCW-SA-2D-840-U-T3

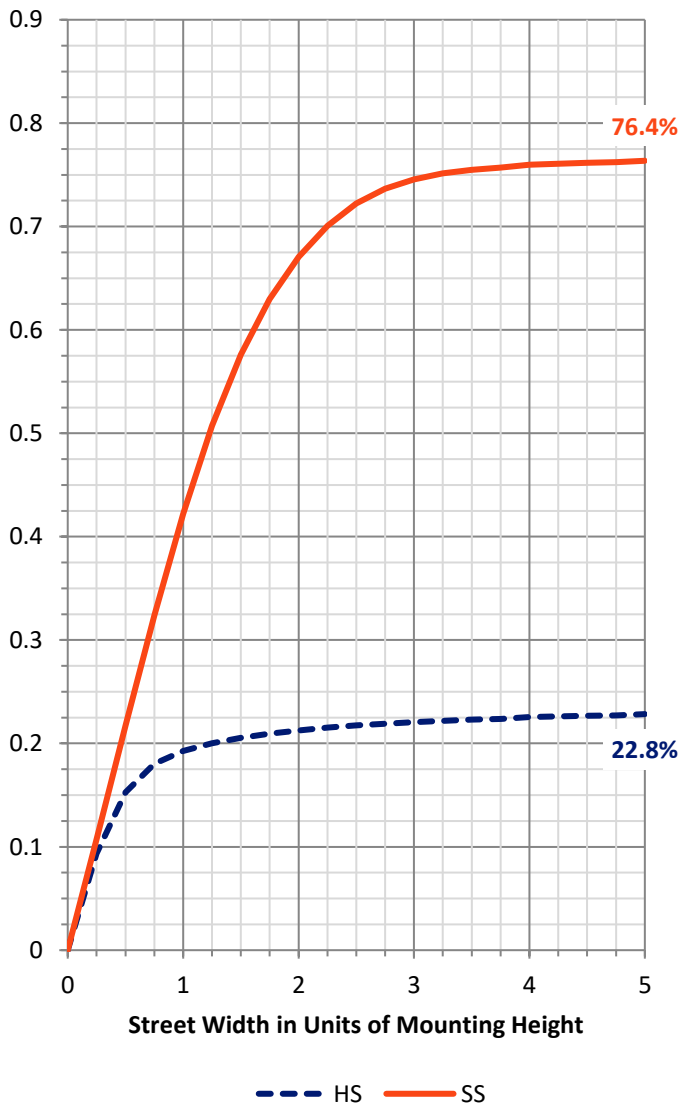
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2243.7	0.0	2243.7
	% Fixture	23.4	0.0	23.4
<b>Street Side</b>	Lumens	7363.9	0.0	7363.9
	% Fixture	76.6	0.0	76.6
<b>Total</b>	Lumens	9607.6	0.0	9607.6
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	112.6	1.2
10°-20°	379.4	3.9
20°-30°	693.5	7.2
30°-40°	1017.4	10.6
40°-50°	1400.9	14.6
50°-60°	1921.0	20.0
60°-70°	2315.6	24.1
70°-80°	1542.6	16.1
80°-90°	224.7	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°	9607.6	100.0
0°-180°	9607.6	100.0



REPORT NUMBER: P675053

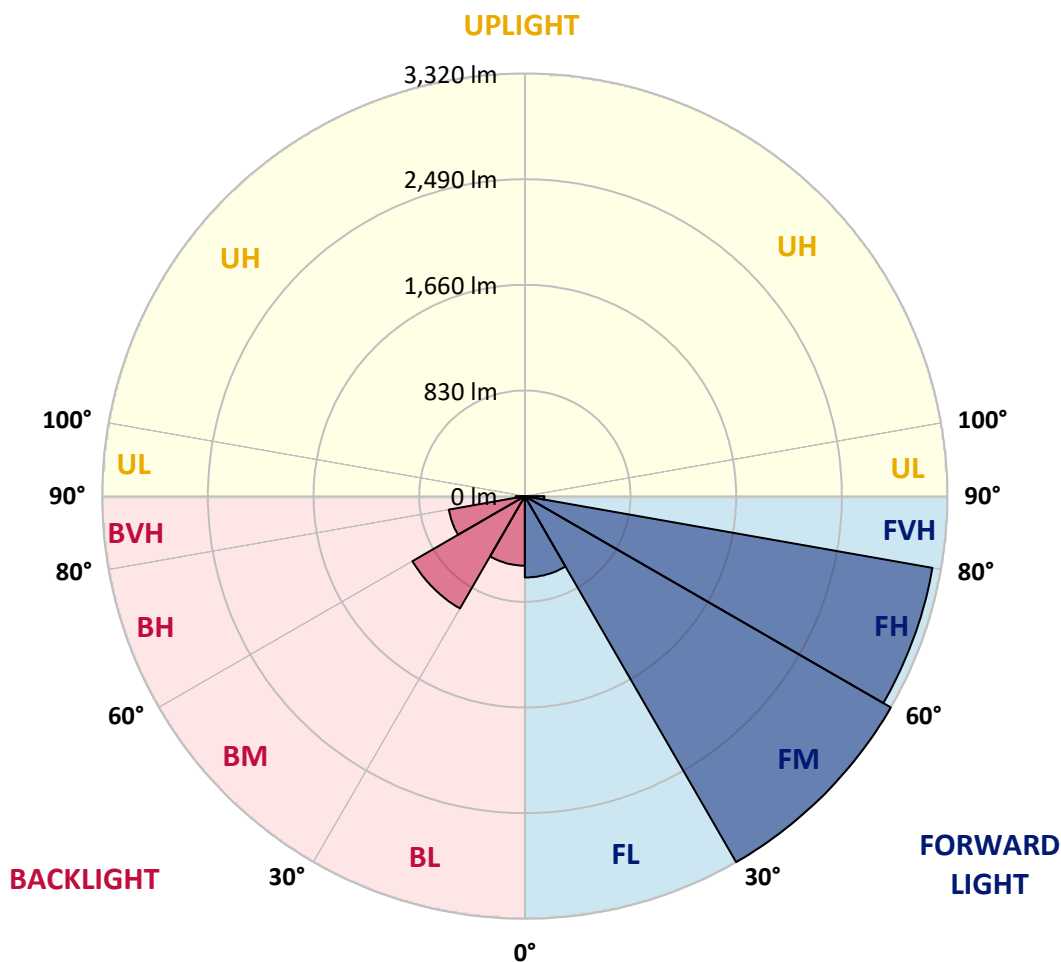
CATALOG NUMBER: CCW-SA-2D-840-U-T3

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	639.1	6.7			
FM (30°-60°)	3320.2	34.6			
FH (60°-80°)	3251.6	33.8			G2/5000
FVH (80°-90°)	153.0	1.6			G2/225
BL (0°-30°)	546.3	5.7	B2/1000		
BM (30°-60°)	1019.1	10.6	B2/2500		
BH (60°-80°)	606.6	6.3	B2/1000		G2/1000
BVH (80°-90°)	71.7	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





REPORT NUMBER: P675053  
 CATALOG NUMBER: CCW-SA-2D-840-U-T3

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	1134.0	1134.0	1134.0	1134.0	1134.0	1134.0	1134.0	1134.0	1134.0	1134.0	1134.0
2.5°	1113.0	1116.5	1123.5	1120.0	1120.0	1109.5	1127.0	1130.5	1123.5	1127.0	1134.0
5°	1113.0	1120.0	1130.5	1123.5	1127.0	1123.5	1116.5	1127.0	1127.0	1130.5	1141.0
7.5°	1172.5	1169.0	1169.0	1158.5	1155.0	1151.5	1155.0	1155.0	1148.0	1151.5	1151.5
10°	1239.0	1239.0	1232.0	1232.0	1225.0	1207.5	1190.0	1186.5	1176.0	1179.5	1179.5
12.5°	1309.0	1316.0	1323.0	1302.0	1295.0	1267.0	1256.5	1235.5	1235.5	1228.5	1225.0
15°	1396.5	1386.0	1393.0	1386.0	1368.5	1340.5	1323.0	1326.5	1302.0	1295.0	1284.5
17.5°	1473.5	1477.0	1466.5	1459.5	1428.0	1407.0	1410.5	1407.0	1375.5	1365.0	1347.5
20°	1564.5	1561.0	1561.0	1540.0	1512.0	1484.0	1473.5	1470.0	1477.0	1456.0	1414.0
22.5°	1659.0	1645.0	1645.0	1627.5	1589.0	1571.5	1564.5	1550.5	1557.5	1540.0	1477.0
25°	1736.0	1736.0	1760.5	1725.5	1704.5	1669.5	1655.5	1659.0	1662.5	1627.5	1554.0
27.5°	1837.5	1820.0	1844.5	1827.0	1816.5	1778.0	1760.5	1771.0	1764.0	1725.5	1624.0
30°	1967.0	1970.5	1956.5	1932.0	1918.0	1890.0	1879.5	1869.0	1879.5	1830.5	1701.0
32.5°	2128.0	2138.5	2103.5	2075.5	2051.0	2023.0	2002.0	1991.5	2002.0	1928.5	1760.5
35°	2313.5	2324.0	2296.0	2264.5	2236.5	2166.5	2149.0	2131.5	2093.0	1974.0	1816.5
37.5°	2485.0	2471.0	2464.0	2464.0	2411.5	2310.0	2299.5	2289.0	2215.5	2065.0	1893.5
40°	2600.5	2618.0	2611.0	2604.0	2597.0	2502.5	2481.5	2464.0	2341.5	2201.5	2002.0
42.5°	2730.0	2719.5	2747.5	2758.0	2733.5	2705.5	2621.5	2562.0	2453.5	2341.5	2163.0
45°	2884.0	2877.0	2887.5	2926.0	2891.0	2901.5	2761.5	2719.5	2583.0	2516.5	2366.0
47.5°	3020.5	3038.0	3090.5	3101.0	3073.0	3122.0	2926.0	2859.5	2772.0	2719.5	2576.0
50°	3080.0	3101.0	3220.0	3293.5	3297.0	3374.0	3090.5	3062.5	2943.5	2964.5	2838.5
52.5°	3031.0	3097.5	3241.0	3433.5	3552.5	3629.5	3307.5	3293.5	3185.0	3251.5	3125.5
55°	3076.5	3139.5	3234.0	3503.5	3804.5	3822.0	3608.5	3556.0	3447.5	3538.5	3423.0
57.5°	3097.5	3062.5	3241.0	3580.5	3990.0	4035.5	3895.5	3857.0	3773.0	3860.5	3794.0
60°	2933.0	2975.0	3143.0	3559.5	4000.5	4263.0	4217.5	4161.5	4084.5	4165.0	4126.5
62.5°	2747.5	2775.5	2957.5	3433.5	4060.0	4427.5	4529.0	4487.0	4378.5	4448.5	4515.0
65°	2513.0	2516.5	2719.5	3209.5	3944.5	4522.0	4802.0	4798.5	4721.5	4704.0	4809.0
67.5°	2226.0	2254.0	2415.0	2971.5	3787.0	4627.0	5071.5	5124.0	4970.0	4833.5	4872.0
70°	1708.0	1736.0	1890.0	2436.0	3465.0	4595.5	5404.0	5432.0	5131.0	4784.5	4686.5
72.5°	889.0	896.0	1053.5	1470.0	2457.0	4081.0	5526.5	5600.0	5173.0	4641.0	4179.0
75°	294.0	294.0	360.5	560.0	1158.5	2611.0	5005.0	5138.0	4966.5	4284.0	3419.5
77.5°	175.0	178.5	213.5	280.0	462.0	1043.0	3528.0	3762.5	4063.5	3643.5	2499.0
80°	126.0	129.5	161.0	192.5	276.5	336.0	1771.0	2096.5	2495.5	2345.0	1333.5
82.5°	94.5	94.5	126.0	143.5	189.0	199.5	493.5	675.5	1078.0	840.0	367.5
85°	98.0	98.0	98.0	101.5	129.5	115.5	206.5	220.5	315.0	276.5	101.5
87.5°	35.0	38.5	98.0	66.5	66.5	49.0	80.5	87.5	112.0	115.5	38.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P675053

CATALOG NUMBER: CCW-SA-2D-840-U-T3

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1134.0	1134.0	1134.0	1134.0	1134.0	1134.0	1134.0	1134.0	1134.0	1134.0	1134.0
2.5°	1137.5	1137.5	1141.0	1141.0	1148.0	1155.0	1165.5	1158.5	1158.5	1162.0	1158.5
5°	1134.0	1137.5	1148.0	1165.5	1172.5	1176.0	1197.0	1197.0	1197.0	1204.0	1204.0
7.5°	1148.0	1155.0	1172.5	1190.0	1193.5	1204.0	1232.0	1239.0	1256.5	1263.5	1267.0
10°	1183.0	1193.5	1207.5	1228.5	1242.5	1256.5	1277.5	1302.0	1298.5	1319.5	1323.0
12.5°	1235.5	1232.0	1256.5	1277.5	1291.5	1312.5	1319.5	1319.5	1319.5	1319.5	1326.5
15°	1277.5	1284.5	1305.5	1319.5	1337.0	1333.5	1319.5	1305.5	1309.0	1305.5	1305.5
17.5°	1340.5	1340.5	1358.0	1361.5	1368.5	1333.5	1312.5	1312.5	1323.0	1323.0	1316.0
20°	1403.5	1400.0	1407.0	1403.5	1358.0	1316.0	1312.5	1316.0	1319.5	1316.0	1312.5
22.5°	1463.0	1456.0	1445.5	1431.5	1351.0	1312.5	1305.5	1288.0	1270.5	1270.5	1260.0
25°	1515.5	1508.5	1480.5	1438.5	1347.5	1291.5	1256.5	1214.5	1193.5	1183.0	1197.0
27.5°	1564.5	1550.5	1512.0	1438.5	1316.0	1235.5	1169.0	1116.5	1099.0	1085.0	1099.0
30°	1631.0	1606.5	1554.0	1428.0	1267.0	1148.0	1057.0	994.0	976.5	955.5	962.5
32.5°	1690.5	1634.5	1589.0	1396.5	1204.0	1050.0	945.0	882.0	850.5	833.0	847.0
35°	1753.5	1697.5	1603.0	1347.5	1106.0	931.0	826.0	766.5	742.0	717.5	717.5
37.5°	1816.5	1785.0	1624.0	1256.5	987.0	819.0	724.5	679.0	637.0	591.5	591.5
40°	1949.5	1907.5	1648.5	1151.5	868.0	710.5	644.0	584.5	542.5	479.5	476.0
42.5°	2089.5	1998.5	1648.5	1025.5	763.0	633.5	570.5	507.5	430.5	392.0	395.5
45°	2268.0	2163.0	1603.0	913.5	658.0	570.5	500.5	420.0	385.0	360.5	360.5
47.5°	2492.0	2327.5	1547.0	791.0	574.0	514.5	427.0	378.0	353.5	332.5	329.0
50°	2758.0	2478.0	1477.0	686.0	504.0	462.0	388.5	350.0	329.0	315.0	315.0
52.5°	3038.0	2698.5	1428.0	591.5	448.0	392.0	360.5	336.0	318.5	308.0	304.5
55°	3321.5	2919.0	1393.0	490.0	395.5	360.5	353.5	332.5	325.5	315.0	308.0
57.5°	3640.0	3101.0	1386.0	420.0	353.5	346.5	360.5	343.0	332.5	322.0	311.5
60°	3983.0	3346.0	1323.0	364.0	332.5	339.5	350.0	332.5	325.5	315.0	308.0
62.5°	4322.5	3528.0	1151.5	322.0	311.5	318.5	332.5	318.5	308.0	311.5	315.0
65°	4462.5	3542.0	892.5	290.5	287.0	290.5	311.5	308.0	297.5	318.5	318.5
67.5°	4322.5	3416.0	630.0	262.5	262.5	280.0	315.0	322.0	311.5	339.5	336.0
70°	4004.0	3104.5	427.0	245.0	252.0	297.5	325.5	318.5	304.5	339.5	332.5
72.5°	3398.5	2485.0	311.5	227.5	238.0	283.5	322.0	315.0	304.5	318.5	304.5
75°	2551.5	1767.5	245.0	206.5	210.0	255.5	332.5	315.0	287.0	280.0	269.5
77.5°	1704.5	1092.0	189.0	182.0	182.0	224.0	318.5	294.0	259.0	248.5	245.0
80°	812.0	437.5	150.5	154.0	157.5	192.5	290.5	262.5	234.5	220.5	220.5
82.5°	259.0	164.5	126.0	126.0	126.0	157.5	241.5	220.5	203.0	192.5	175.0
85°	91.0	91.0	108.5	112.0	101.5	115.5	199.5	189.0	168.0	140.0	136.5
87.5°	35.0	52.5	73.5	87.5	63.0	80.5	143.5	133.0	122.5	91.0	87.5
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)