

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: P675048

Luminaire Tested: **CCW-SA-1E-840-U-T3**

Issue Date: 04/25/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P675048  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 04/25/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCW-SA-1E-840-U-T3  
Description: INVUE CLEAR CURVE Wall Pack MOUNT LIGHT SQUARE LUMINAIRE @1050mA w/  
T3 distribution lens  
Light Source: (16) 4000K CCT, 80 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

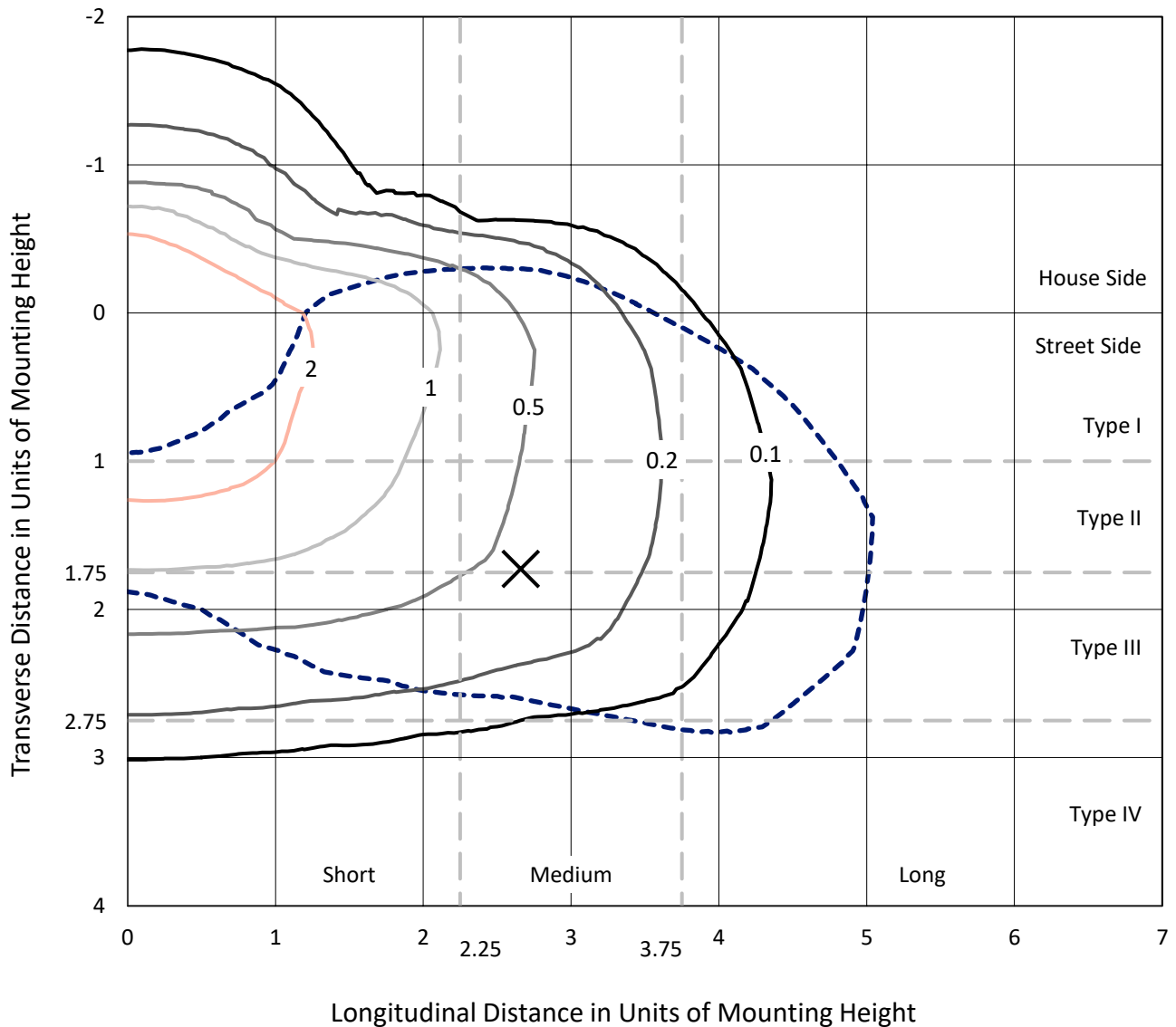
Lumens per Lamp: N/A  
Luminaire Lumens: 5889.8 lumens  
Efficiency: N/A  
Efficacy: 105.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B1 - U0 - G2

Input Watts (W): 56.1  
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: P675048  
 CATALOG NUMBER: CCW-SA-1E-840-U-T3

### Iso-Footcandle Lines of Horizontal Illumination

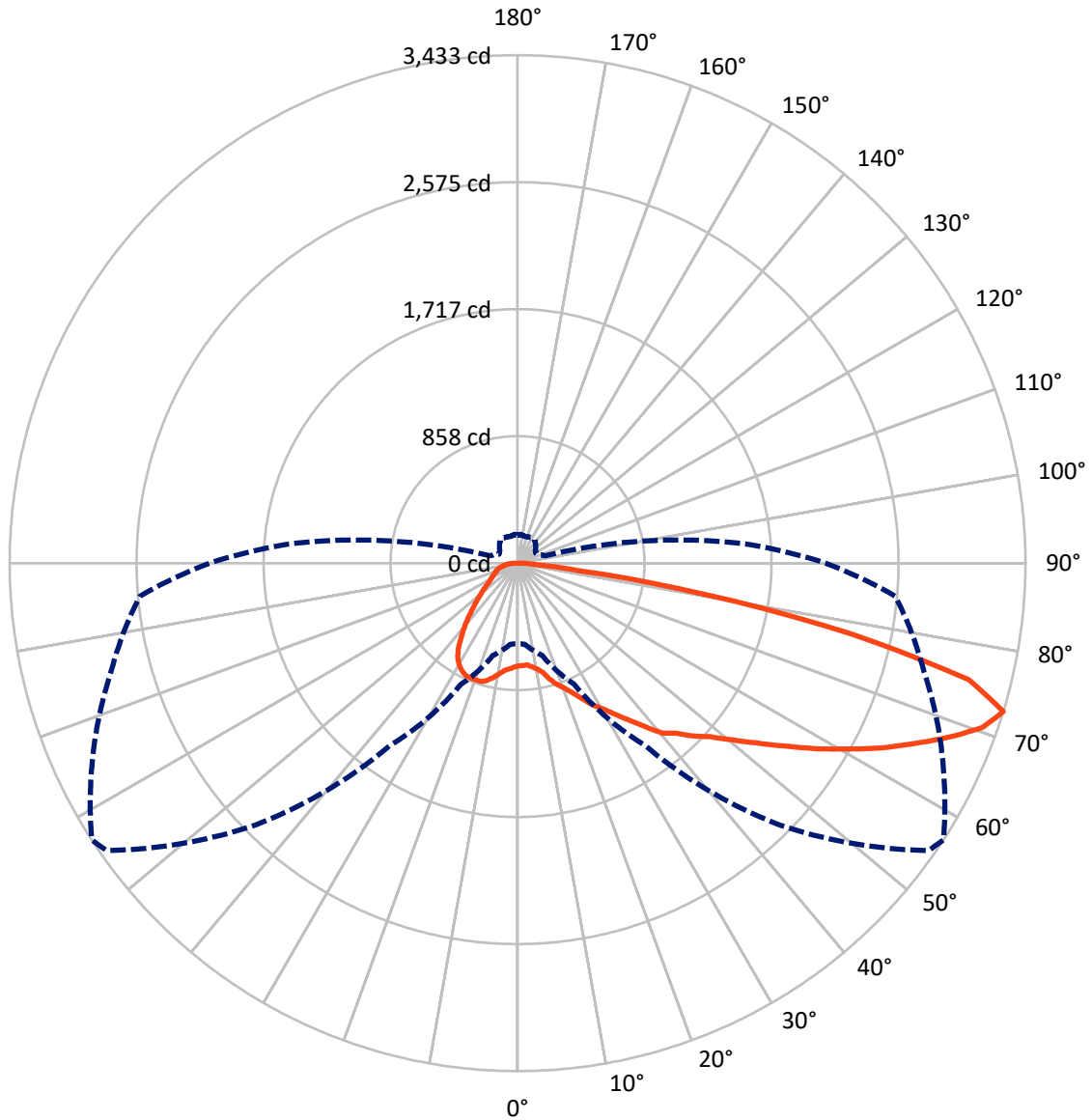
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 3.5 fc  
 Type III - Medium - N/A

REPORT NUMBER: P675048  
CATALOG NUMBER: CCW-SA-1E-840-U-T3

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P675048  
 CATALOG NUMBER: CCW-SA-1E-840-U-T3

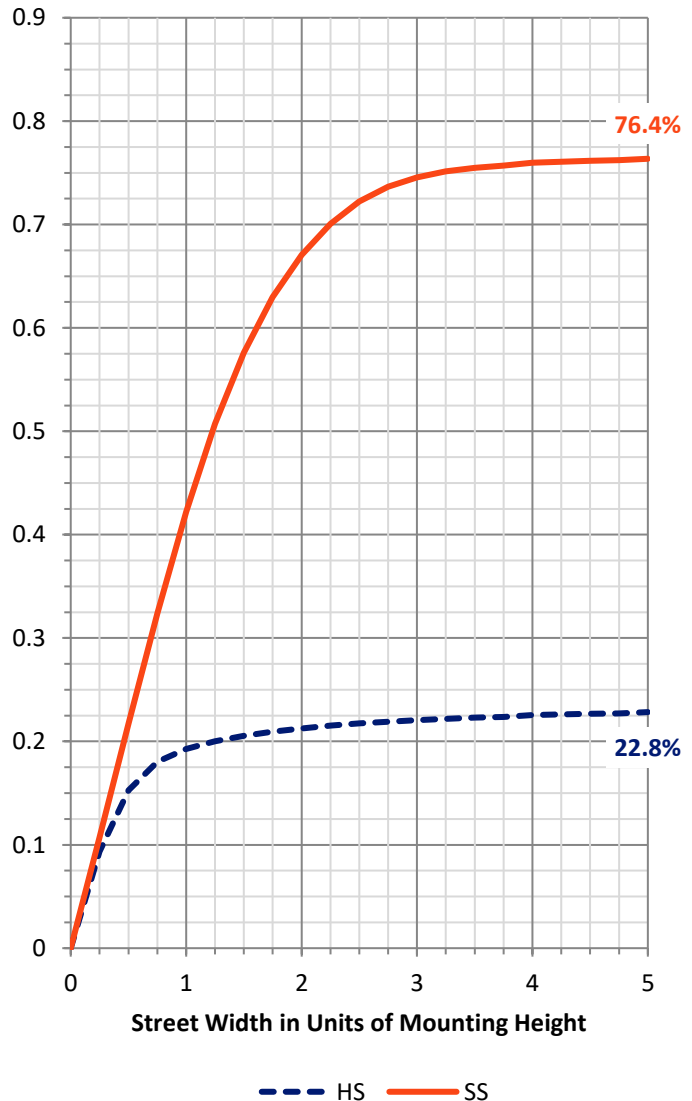
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1375.5	0.0	1375.5
	% Fixture	23.4	0.0	23.4
<b>Street Side</b>	Lumens	4514.3	0.0	4514.3
	% Fixture	76.6	0.0	76.6
<b>Total</b>	Lumens	5889.8	0.0	5889.8
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	69.0	1.2
10°-20°	232.6	3.9
20°-30°	425.1	7.2
30°-40°	623.7	10.6
40°-50°	858.8	14.6
50°-60°	1177.6	20.0
60°-70°	1419.6	24.1
70°-80°	945.6	16.1
80°-90°	137.7	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°	5889.8	100.0
0°-180°	5889.8	100.0



REPORT NUMBER: P675048

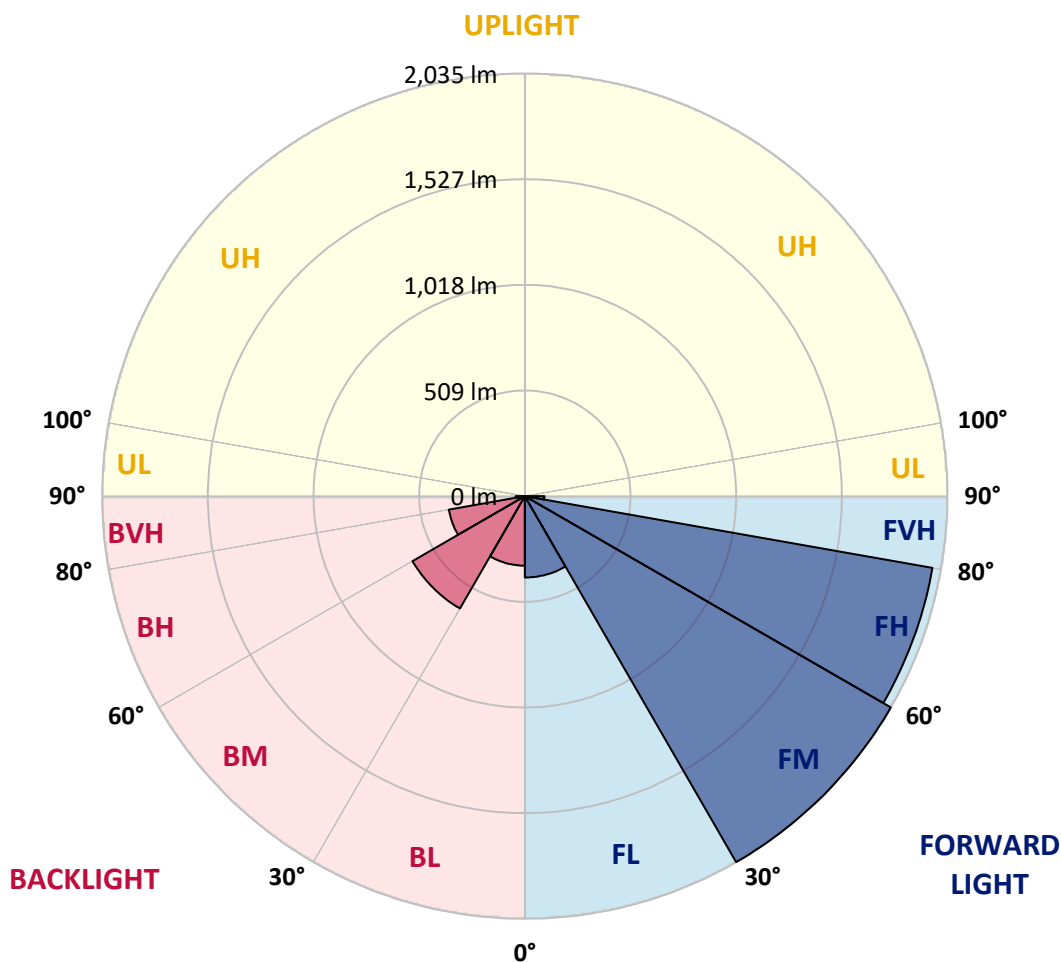
CATALOG NUMBER: CCW-SA-1E-840-U-T3

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	391.8	6.7			
FM (30°-60°)	2035.4	34.6			
FH (60°-80°)	1993.3	33.8			G2/5000
FVH (80°-90°)	93.8	1.6			G1/100
BL (0°-30°)	334.9	5.7	B1/500		
BM (30°-60°)	624.8	10.6	B1/1000		
BH (60°-80°)	371.9	6.3	B1/500		G1/500
BVH (80°-90°)	43.9	0.7			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G2**

Type III Medium





REPORT NUMBER: P675048

CATALOG NUMBER: CCW-SA-1E-840-U-T3

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	695.2	695.2	695.2	695.2	695.2	695.2	695.2	695.2	695.2	695.2	695.2
2.5°	682.3	684.5	688.7	686.6	686.6	680.2	690.9	693.0	688.7	690.9	695.2
5°	682.3	686.6	693.0	688.7	690.9	688.7	684.5	690.9	690.9	693.0	699.5
7.5°	718.8	716.6	716.6	710.2	708.1	705.9	708.1	708.1	703.8	705.9	705.9
10°	759.6	759.6	755.3	755.3	751.0	740.2	729.5	727.4	720.9	723.1	723.1
12.5°	802.5	806.8	811.0	798.2	793.9	776.7	770.3	757.4	757.4	753.1	751.0
15°	856.1	849.7	854.0	849.7	838.9	821.8	811.0	813.2	798.2	793.9	787.4
17.5°	903.3	905.5	899.0	894.7	875.4	862.5	864.7	862.5	843.2	836.8	826.1
20°	959.1	956.9	956.9	944.1	926.9	909.7	903.3	901.2	905.5	892.6	866.8
22.5°	1017.0	1008.4	1008.4	997.7	974.1	963.4	959.1	950.5	954.8	944.1	905.5
25°	1064.2	1064.2	1079.2	1057.8	1044.9	1023.5	1014.9	1017.0	1019.2	997.7	952.7
27.5°	1126.5	1115.7	1130.7	1120.0	1113.6	1090.0	1079.2	1085.7	1081.4	1057.8	995.6
30°	1205.8	1208.0	1199.4	1184.4	1175.8	1158.6	1152.2	1145.8	1152.2	1122.2	1042.8
32.5°	1304.5	1311.0	1289.5	1272.4	1257.3	1240.2	1227.3	1220.9	1227.3	1182.2	1079.2
35°	1418.3	1424.7	1407.5	1388.2	1371.1	1328.1	1317.4	1306.7	1283.1	1210.1	1113.6
37.5°	1523.4	1514.8	1510.5	1510.5	1478.3	1416.1	1409.7	1403.2	1358.2	1265.9	1160.8
40°	1594.2	1604.9	1600.6	1596.3	1592.1	1534.1	1521.2	1510.5	1435.4	1349.6	1227.3
42.5°	1673.6	1667.2	1684.3	1690.8	1675.7	1658.6	1607.1	1570.6	1504.1	1435.4	1326.0
45°	1768.0	1763.7	1770.1	1793.7	1772.3	1778.7	1692.9	1667.2	1583.5	1542.7	1450.4
47.5°	1851.7	1862.4	1894.6	1901.0	1883.9	1913.9	1793.7	1753.0	1699.3	1667.2	1579.2
50°	1888.2	1901.0	1974.0	2019.0	2021.2	2068.4	1894.6	1877.4	1804.5	1817.3	1740.1
52.5°	1858.1	1898.9	1986.8	2104.9	2177.8	2225.0	2027.6	2019.0	1952.5	1993.3	1916.0
55°	1886.0	1924.6	1982.6	2147.8	2332.3	2343.0	2212.1	2180.0	2113.4	2169.2	2098.4
57.5°	1898.9	1877.4	1986.8	2195.0	2446.0	2473.9	2388.1	2364.5	2313.0	2366.6	2325.9
60°	1798.0	1823.8	1926.8	2182.1	2452.4	2613.4	2585.5	2551.1	2503.9	2553.3	2529.7
62.5°	1684.3	1701.5	1813.1	2104.9	2488.9	2714.2	2776.4	2750.7	2684.2	2727.1	2767.9
65°	1540.6	1542.7	1667.2	1967.5	2418.1	2772.1	2943.8	2941.7	2894.4	2883.7	2948.1
67.5°	1364.6	1381.8	1480.5	1821.6	2321.6	2836.5	3109.0	3141.2	3046.8	2963.1	2986.7
70°	1047.1	1064.2	1158.6	1493.4	2124.2	2817.2	3312.8	3330.0	3145.5	2933.1	2873.0
72.5°	545.0	549.3	645.8	901.2	1506.2	2501.8	3387.9	3433.0	3171.2	2845.1	2561.9
75°	180.2	180.2	221.0	343.3	710.2	1600.6	3068.2	3149.8	3044.6	2626.2	2096.3
77.5°	107.3	109.4	130.9	171.7	283.2	639.4	2162.8	2306.5	2491.1	2233.6	1532.0
80°	77.2	79.4	98.7	118.0	169.5	206.0	1085.7	1285.2	1529.8	1437.6	817.5
82.5°	57.9	57.9	77.2	88.0	115.9	122.3	302.5	414.1	660.9	515.0	225.3
85°	60.1	60.1	60.1	62.2	79.4	70.8	126.6	135.2	193.1	169.5	62.2
87.5°	21.5	23.6	60.1	40.8	40.8	30.0	49.3	53.6	68.7	70.8	23.6
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: P675048  
 CATALOG NUMBER: CCW-SA-1E-840-U-T3

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	695.2	695.2	695.2	695.2	695.2	695.2	695.2	695.2	695.2	695.2	695.2
2.5°	697.3	697.3	699.5	699.5	703.8	708.1	714.5	710.2	710.2	712.3	710.2
5°	695.2	697.3	703.8	714.5	718.8	720.9	733.8	733.8	733.8	738.1	738.1
7.5°	703.8	708.1	718.8	729.5	731.7	738.1	755.3	759.6	770.3	774.6	776.7
10°	725.2	731.7	740.2	753.1	761.7	770.3	783.2	798.2	796.0	808.9	811.0
12.5°	757.4	755.3	770.3	783.2	791.7	804.6	808.9	808.9	808.9	808.9	813.2
15°	783.2	787.4	800.3	808.9	819.6	817.5	808.9	800.3	802.5	800.3	800.3
17.5°	821.8	821.8	832.5	834.6	838.9	817.5	804.6	804.6	811.0	811.0	806.8
20°	860.4	858.3	862.5	860.4	832.5	806.8	804.6	806.8	808.9	806.8	804.6
22.5°	896.9	892.6	886.1	877.6	828.2	804.6	800.3	789.6	778.9	778.9	772.4
25°	929.1	924.8	907.6	881.9	826.1	791.7	770.3	744.5	731.7	725.2	733.8
27.5°	959.1	950.5	926.9	881.9	806.8	757.4	716.6	684.5	673.7	665.1	673.7
30°	999.9	984.8	952.7	875.4	776.7	703.8	648.0	609.4	598.6	585.8	590.0
32.5°	1036.3	1002.0	974.1	856.1	738.1	643.7	579.3	540.7	521.4	510.7	519.2
35°	1075.0	1040.6	982.7	826.1	678.0	570.7	506.4	469.9	454.9	439.9	439.9
37.5°	1113.6	1094.3	995.6	770.3	605.1	502.1	444.1	416.3	390.5	362.6	362.6
40°	1195.1	1169.4	1010.6	705.9	532.1	435.6	394.8	358.3	332.6	294.0	291.8
42.5°	1280.9	1225.2	1010.6	628.7	467.7	388.4	349.7	311.1	263.9	240.3	242.5
45°	1390.4	1326.0	982.7	560.0	403.4	349.7	306.8	257.5	236.0	221.0	221.0
47.5°	1527.7	1426.8	948.4	484.9	351.9	315.4	261.8	231.7	216.7	203.8	201.7
50°	1690.8	1519.1	905.5	420.5	309.0	283.2	238.2	214.6	201.7	193.1	193.1
52.5°	1862.4	1654.3	875.4	362.6	274.6	240.3	221.0	206.0	195.3	188.8	186.7
55°	2036.2	1789.5	854.0	300.4	242.5	221.0	216.7	203.8	199.5	193.1	188.8
57.5°	2231.5	1901.0	849.7	257.5	216.7	212.4	221.0	210.3	203.8	197.4	191.0
60°	2441.7	2051.2	811.0	223.1	203.8	208.1	214.6	203.8	199.5	193.1	188.8
62.5°	2649.8	2162.8	705.9	197.4	191.0	195.3	203.8	195.3	188.8	191.0	193.1
65°	2735.7	2171.4	547.1	178.1	175.9	178.1	191.0	188.8	182.4	195.3	195.3
67.5°	2649.8	2094.1	386.2	160.9	160.9	171.7	193.1	197.4	191.0	208.1	206.0
70°	2454.6	1903.2	261.8	150.2	154.5	182.4	199.5	195.3	186.7	208.1	203.8
72.5°	2083.4	1523.4	191.0	139.5	145.9	173.8	197.4	193.1	186.7	195.3	186.7
75°	1564.2	1083.5	150.2	126.6	128.7	156.6	203.8	193.1	175.9	171.7	165.2
77.5°	1044.9	669.4	115.9	111.6	111.6	137.3	195.3	180.2	158.8	152.3	150.2
80°	497.8	268.2	92.3	94.4	96.6	118.0	178.1	160.9	143.8	135.2	135.2
82.5°	158.8	100.8	77.2	77.2	77.2	96.6	148.0	135.2	124.4	118.0	107.3
85°	55.8	55.8	66.5	68.7	62.2	70.8	122.3	115.9	103.0	85.8	83.7
87.5°	21.5	32.2	45.1	53.6	38.6	49.3	88.0	81.5	75.1	55.8	53.6
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)