

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: P675159

Luminaire Tested: **CCW-SA-1E-827-U-T4FT**

Issue Date: 04/25/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P675159  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 04/25/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCW-SA-1E-827-U-T4FT  
Description: INVUE CLEAR CURVE Wall Pack MOUNT LIGHT SQUARE LUMINAIRE @1050mA w/  
T4FT distribution lens  
Light Source: (16) 2700K CCT, 80 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

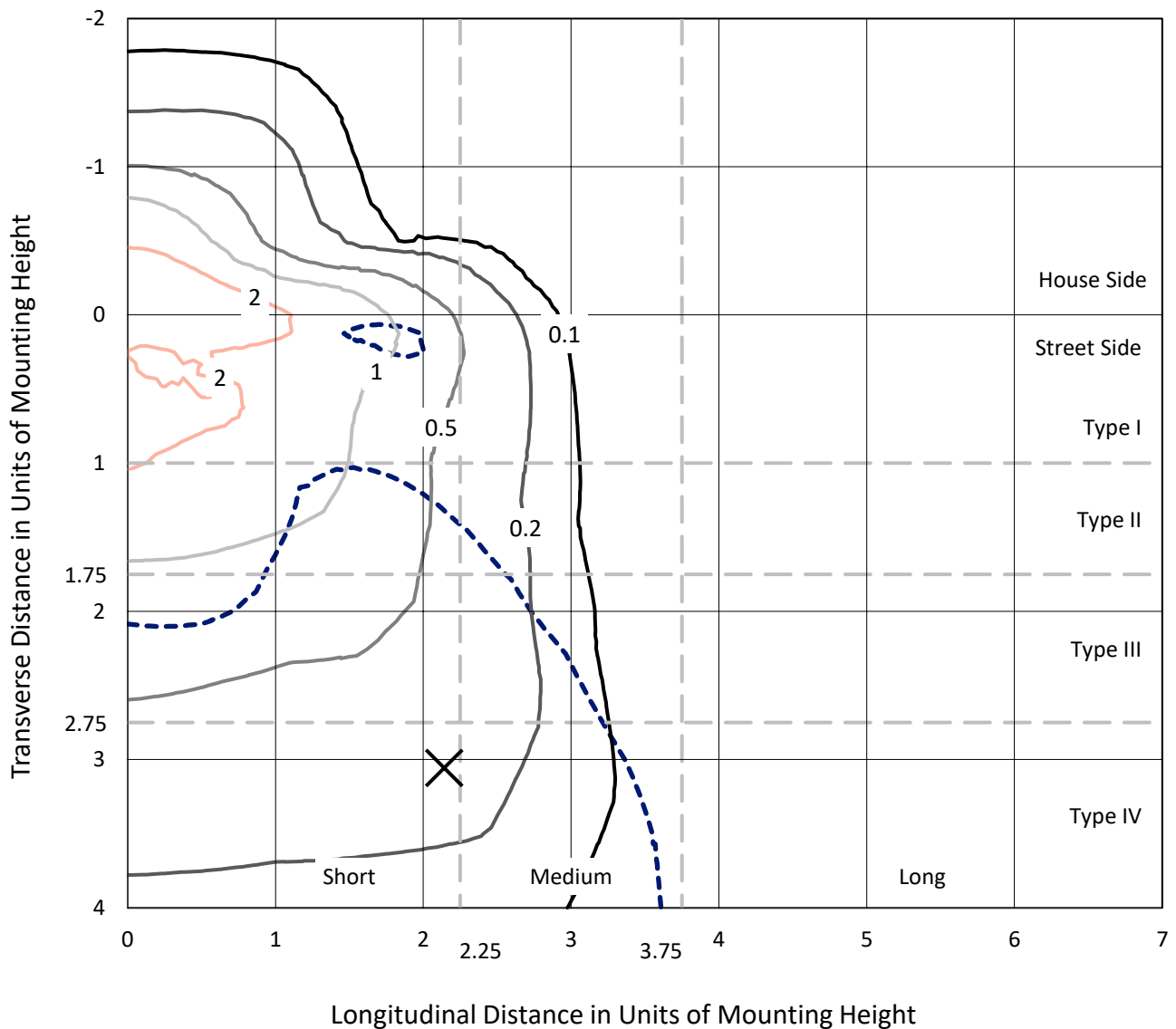
Lumens per Lamp: N/A  
Luminaire Lumens: 5022.8 lumens  
Efficiency: N/A  
Efficacy: 89.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G2

Input Watts (W): 56.1  
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

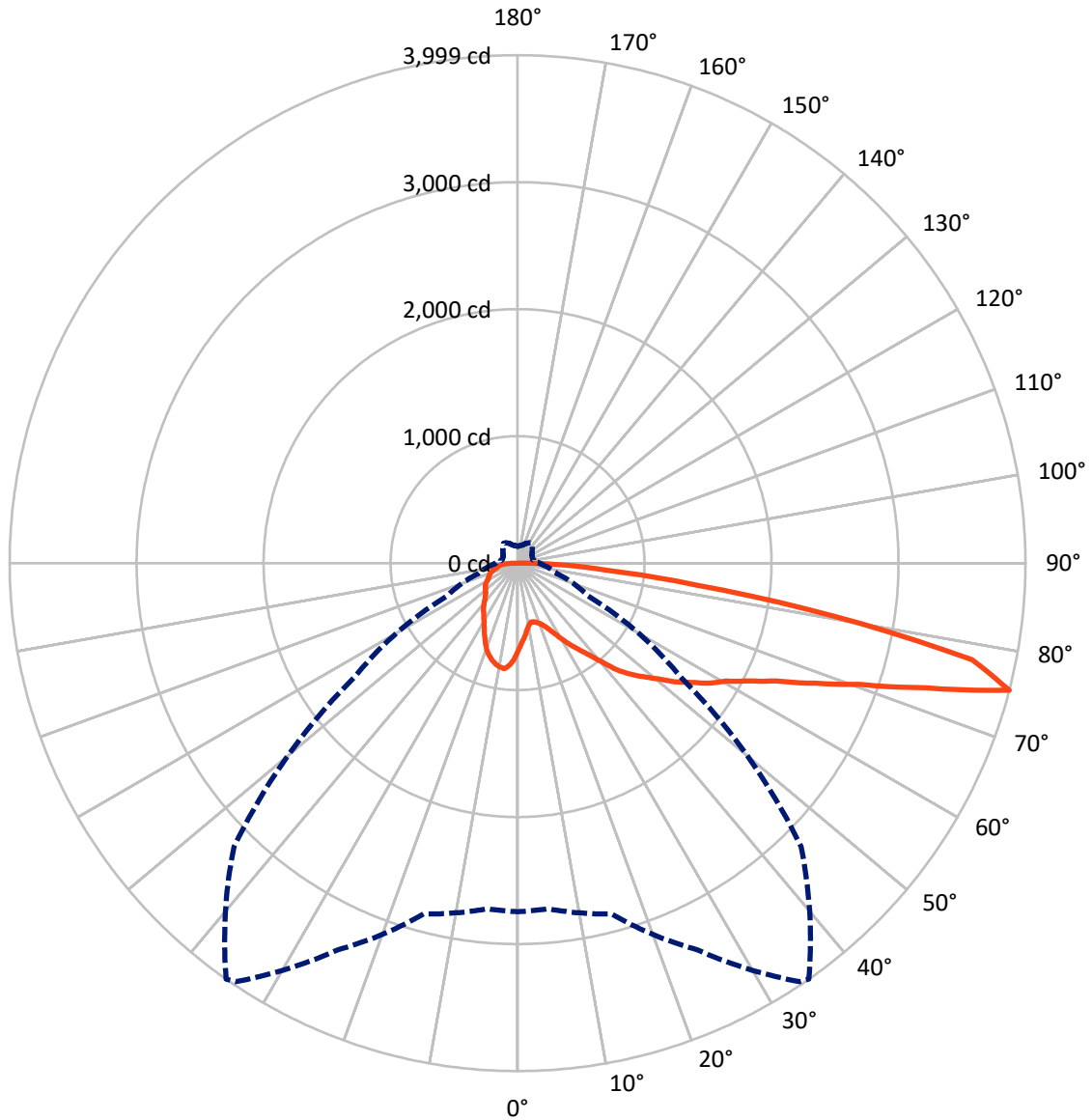
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 3.6 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral    - - - Horizontal Cone Through 75-Deg Vertical

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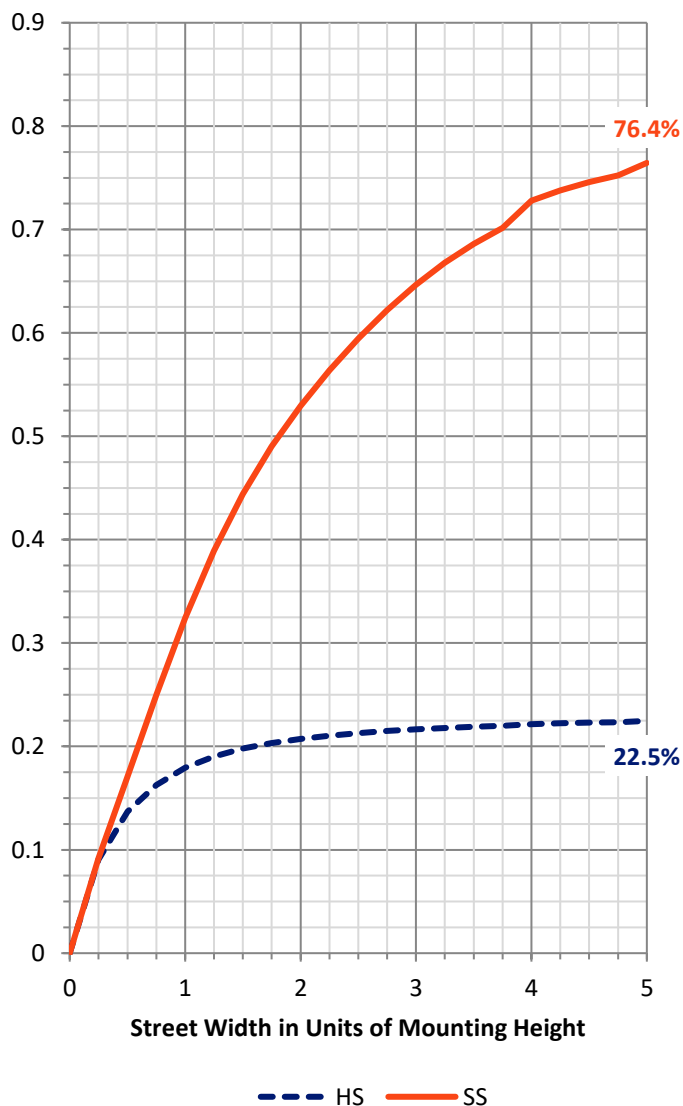
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1154.4	0.0	1154.4
	% Fixture	23.0	0.0	23.0
<b>Street Side</b>	Lumens	3868.4	0.0	3868.4
	% Fixture	77.0	0.0	77.0
<b>Total</b>	Lumens	5022.8	0.0	5022.8
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	65.6	1.3
10°-20°	190.3	3.8
20°-30°	315.8	6.3
30°-40°	468.1	9.3
40°-50°	675.0	13.4
50°-60°	928.1	18.5
60°-70°	1146.5	22.8
70°-80°	1048.8	20.9
80°-90°	184.6	3.7
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°	5022.8	100.0
0°-180°	5022.8	100.0

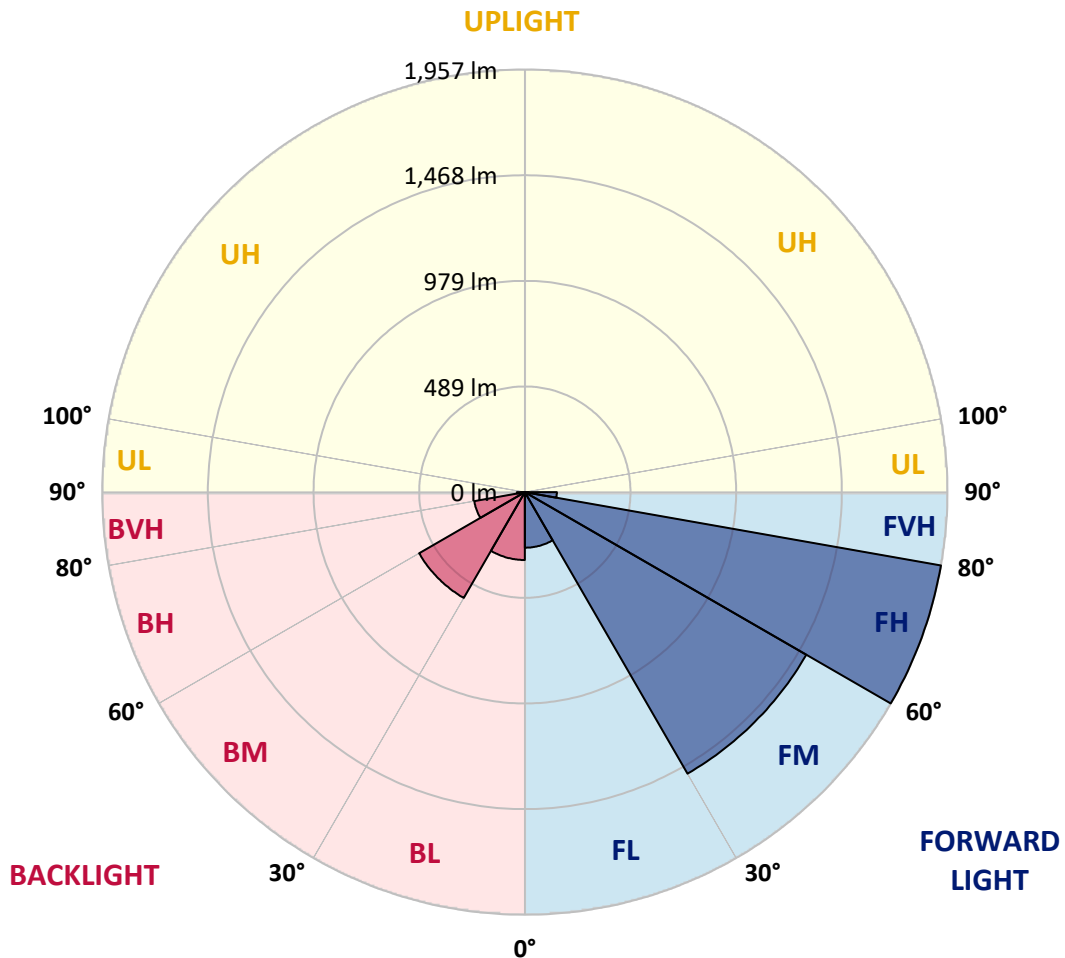


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	257.5	5.1			
FM (30°-60°)	1505.5	30.0			
FH (60°-80°)	1957.3	39.0			G2/5000
FVH (80°-90°)	148.2	3.0			G2/225
BL (0°-30°)	314.2	6.3	B1/500		
BM (30°-60°)	565.7	11.3	B1/1000		
BH (60°-80°)	238.0	4.7	B1/500		G1/500
BVH (80°-90°)	36.4	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 IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	688.2	688.2	688.2	688.2	688.2	688.2	688.2	688.2	688.2	688.2	688.2
2.5°	623.4	617.9	623.4	627.1	627.1	627.1	632.7	649.3	660.4	667.8	680.8
5°	558.7	560.5	564.2	573.5	579.0	582.7	592.0	612.3	629.0	653.0	680.8
7.5°	501.3	505.0	510.6	519.8	532.8	530.9	551.3	579.0	610.5	641.9	682.6
10°	471.7	479.1	481.0	482.8	495.8	495.8	523.5	555.0	593.8	634.5	682.6
12.5°	477.3	477.3	471.7	469.9	477.3	475.4	499.5	536.5	579.0	636.4	690.0
15°	493.9	493.9	482.8	471.7	482.8	479.1	499.5	529.1	579.0	638.2	704.8
17.5°	516.1	518.0	505.0	486.5	490.2	492.1	506.9	534.6	579.0	641.9	725.2
20°	560.5	551.3	530.9	501.3	514.3	508.7	530.9	555.0	590.1	656.7	754.7
22.5°	599.4	599.4	560.5	534.6	536.5	536.5	556.8	577.2	606.8	677.1	776.9
25°	662.3	658.6	610.5	571.6	575.3	577.2	588.3	612.3	634.5	688.2	804.7
27.5°	741.8	732.5	684.5	640.1	625.3	630.8	636.4	654.9	660.4	706.7	838.0
30°	826.9	813.9	773.2	703.0	695.6	697.4	688.2	699.3	691.9	736.2	871.3
32.5°	880.5	880.5	841.7	789.9	769.5	769.5	738.1	745.5	745.5	764.0	930.5
35°	926.8	923.1	897.2	858.3	845.4	838.0	806.5	817.6	799.1	817.6	1013.7
37.5°	997.1	986.0	974.9	949.0	923.1	917.5	900.9	908.3	882.4	873.1	1108.1
40°	1078.5	1072.9	1061.8	1050.7	1024.8	1023.0	1004.5	1011.9	984.1	949.0	1202.4
42.5°	1198.7	1182.1	1146.9	1137.7	1143.2	1150.6	1143.2	1130.3	1080.3	1035.9	1304.2
45°	1319.0	1293.1	1226.5	1211.7	1254.2	1248.7	1280.1	1274.6	1193.2	1122.9	1411.5
47.5°	1396.7	1374.5	1320.8	1311.6	1330.1	1337.5	1431.8	1415.2	1285.7	1202.4	1515.0
50°	1452.2	1454.0	1383.7	1407.8	1431.8	1431.8	1550.2	1548.3	1398.5	1300.5	1650.1
52.5°	1533.5	1507.6	1478.0	1500.2	1533.5	1552.0	1698.2	1657.5	1468.8	1383.7	1801.8
55°	1576.1	1565.0	1539.1	1577.9	1648.2	1657.5	1812.9	1781.4	1548.3	1481.7	1957.2
57.5°	1592.7	1602.0	1644.5	1661.2	1759.2	1783.3	1916.5	1872.1	1622.3	1603.8	2077.4
60°	1666.7	1653.8	1711.1	1777.7	1872.1	1885.0	2046.0	1949.8	1694.5	1683.4	2116.3
62.5°	1816.6	1783.3	1814.7	1894.3	2025.6	2042.3	2182.9	2053.4	1725.9	1737.0	2114.4
65°	2034.9	2010.8	1964.6	2027.5	2212.4	2236.5	2343.8	2142.2	1716.7	1718.5	1964.6
67.5°	2292.0	2253.1	2205.0	2243.9	2469.6	2525.1	2539.9	2181.0	1651.9	1614.9	1598.3
70°	2517.7	2491.8	2460.3	2526.9	2841.4	2861.8	2784.1	2157.0	1472.5	1296.8	1065.5
72.5°	2728.6	2715.6	2734.1	2983.8	3344.6	3357.5	3013.4	2005.3	1163.6	786.2	495.8
75°	2745.2	2732.3	2859.9	3361.2	3975.4	3999.4	3155.9	1572.4	614.2	320.0	209.0
77.5°	1859.1	1898.0	2136.6	2943.1	3651.6	3657.2	2580.6	730.7	253.4	188.7	146.1
80°	456.9	506.9	804.7	1522.4	2462.2	2523.2	1413.3	246.0	166.5	144.3	109.1
82.5°	166.5	181.3	327.4	688.2	1383.7	1407.8	493.9	133.2	120.2	111.0	79.5
85°	79.5	81.4	155.4	338.5	699.3	691.9	177.6	79.5	86.9	75.8	48.1
87.5°	33.3	33.3	68.4	157.2	308.9	299.7	57.3	37.0	49.9	44.4	24.0
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°	688.2	688.2	688.2	688.2	688.2	688.2	688.2	688.2	688.2	688.2	688.2
2.5°	690.0	693.7	708.5	719.6	730.7	739.9	754.7	754.7	764.0	764.0	764.0
5°	688.2	708.5	732.5	758.4	775.1	791.7	806.5	808.4	813.9	821.3	823.2
7.5°	695.6	715.9	754.7	791.7	812.1	819.5	838.0	832.4	832.4	832.4	838.0
10°	710.4	732.5	786.2	819.5	834.3	836.1	830.6	826.9	815.8	812.1	806.5
12.5°	721.5	760.3	813.9	839.8	834.3	828.7	815.8	797.3	784.3	780.6	780.6
15°	749.2	788.0	838.0	847.2	838.0	808.4	791.7	771.4	760.3	743.6	751.0
17.5°	773.2	817.6	862.0	850.9	832.4	786.2	762.1	732.5	717.8	699.3	699.3
20°	804.7	845.4	884.2	854.6	813.9	764.0	725.2	688.2	667.8	649.3	653.0
22.5°	839.8	876.8	897.2	839.8	786.2	728.9	675.2	640.1	614.2	603.1	606.8
25°	867.6	908.3	904.6	815.8	752.9	684.5	625.3	592.0	586.4	575.3	575.3
27.5°	902.7	945.3	899.0	786.2	697.4	614.2	577.2	564.2	564.2	558.7	562.4
30°	949.0	978.6	886.1	743.6	627.1	551.3	532.8	540.2	553.1	547.6	549.4
32.5°	1024.8	1021.1	875.0	695.6	553.1	490.2	503.2	518.0	529.1	534.6	538.3
35°	1098.8	1074.8	862.0	630.8	484.7	460.6	471.7	488.4	508.7	514.3	516.1
37.5°	1172.8	1130.3	839.8	551.3	442.1	434.7	445.8	455.1	471.7	475.4	479.1
40°	1250.5	1167.3	801.0	473.6	407.0	407.0	414.4	416.2	425.5	431.0	434.7
42.5°	1319.0	1202.4	730.7	401.4	370.0	382.9	384.8	381.1	373.7	377.4	379.2
45°	1402.2	1241.3	649.3	349.6	342.2	358.9	362.6	347.8	334.8	327.4	323.7
47.5°	1483.6	1282.0	579.0	307.1	316.3	342.2	342.2	325.6	303.4	284.9	277.5
50°	1557.6	1322.7	521.7	281.2	290.4	329.3	333.0	301.5	277.5	255.3	251.6
52.5°	1681.5	1391.1	462.5	260.8	275.6	320.0	318.2	290.4	259.0	234.9	233.1
55°	1790.7	1459.6	384.8	240.5	260.8	307.1	312.6	279.3	236.8	214.6	210.9
57.5°	1870.2	1476.2	307.1	220.1	246.0	292.3	299.7	257.1	222.0	203.5	201.6
60°	1885.0	1411.5	249.7	203.5	225.7	271.9	277.5	244.2	210.9	196.1	192.4
62.5°	1816.6	1287.5	212.7	188.7	209.0	251.6	262.7	229.4	199.8	186.8	185.0
65°	1661.2	1106.2	186.8	175.7	197.9	236.8	249.7	218.3	190.5	179.4	177.6
67.5°	1315.3	849.1	166.5	166.5	183.1	222.0	240.5	210.9	181.3	173.9	172.0
70°	860.2	510.6	151.7	153.5	172.0	209.0	229.4	201.6	170.2	168.3	164.6
72.5°	370.0	234.9	135.0	140.6	155.4	186.8	212.7	188.7	157.2	151.7	146.1
75°	170.2	142.4	122.1	125.8	138.7	164.6	192.4	173.9	146.1	136.9	131.3
77.5°	120.2	103.6	101.7	109.1	118.4	142.4	170.2	162.8	135.0	127.6	123.9
80°	88.8	79.5	85.1	92.5	98.0	131.3	160.9	149.8	123.9	112.8	107.3
82.5°	62.9	59.2	66.6	74.0	79.5	114.7	148.0	131.3	103.6	94.3	85.1
85°	37.0	38.8	46.2	49.9	55.5	85.1	123.9	105.4	79.5	61.0	59.2
87.5°	16.6	16.6	22.2	24.0	27.7	49.9	83.2	66.6	49.9	38.8	37.0
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)