

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: P670929

Luminaire Tested: **CCP-SA-1E-727-U-T4FT**

Issue Date: 04/16/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P670929  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 04/16/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCP-SA-1E-727-U-T4FT  
Description: INVUE CLEAR CURVE POLE MOUNT LIGHT SQUARE LUMINAIRE @1050mA w/ T4FT distribution lens  
Light Source: (16) 2700K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

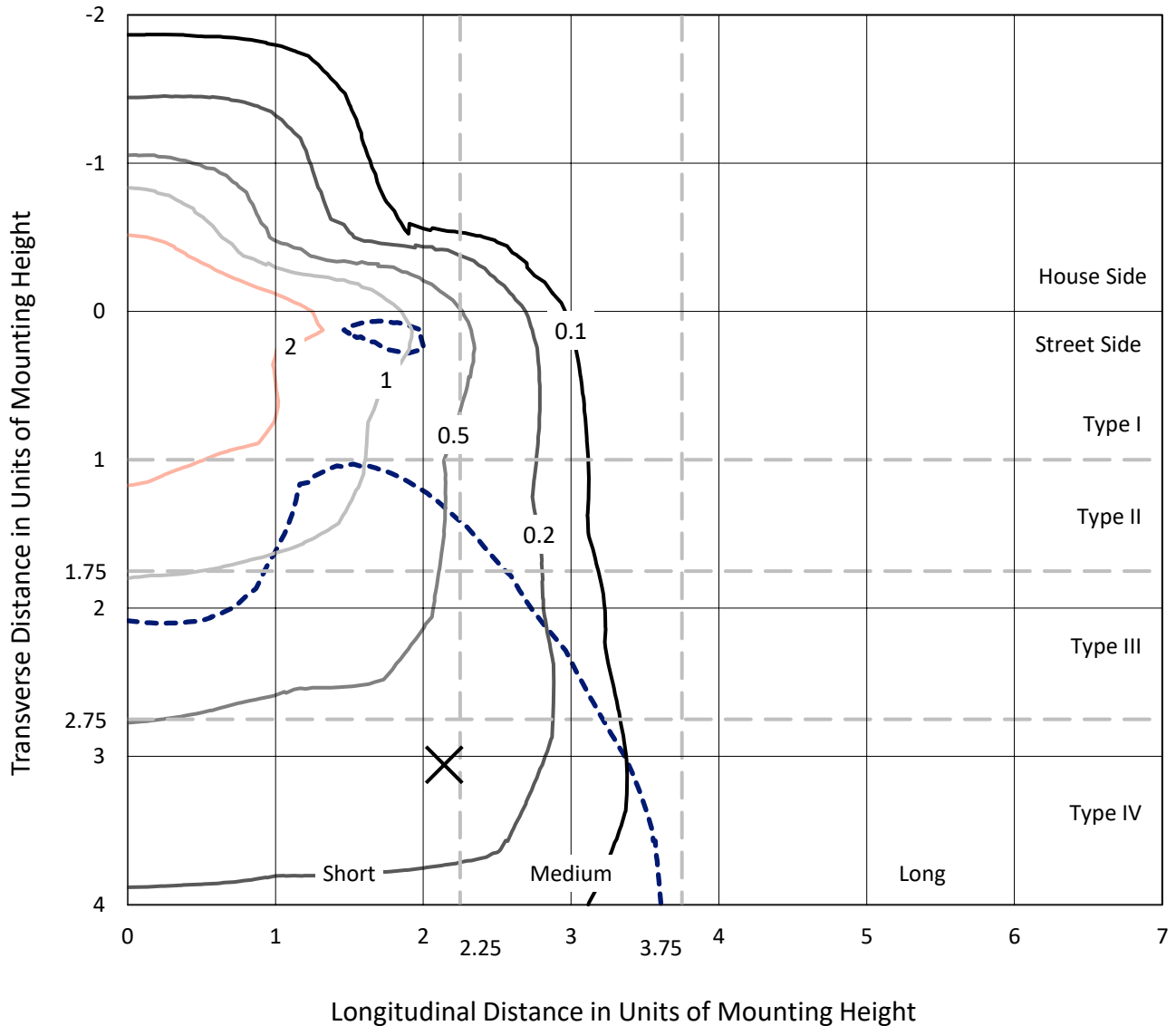
Lumens per Lamp: N/A  
Luminaire Lumens: 5714.3 lumens  
Efficiency: N/A  
Efficacy: 101.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G2

Input Watts (W): 56.1  
Input Voltage (V): 120  
Input Current (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

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### Iso-Footcandle Lines of Horizontal Illumination

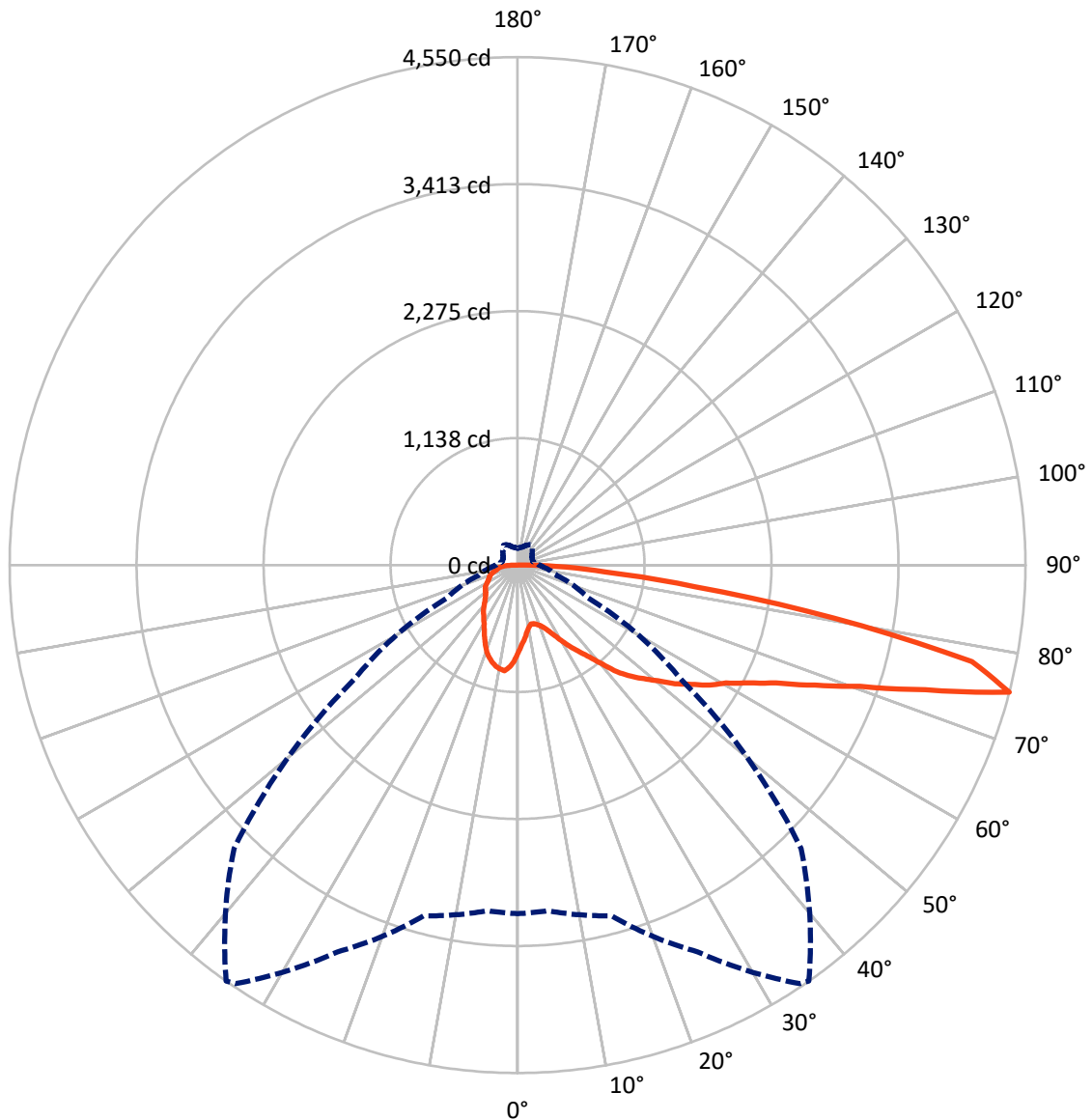
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 4.1 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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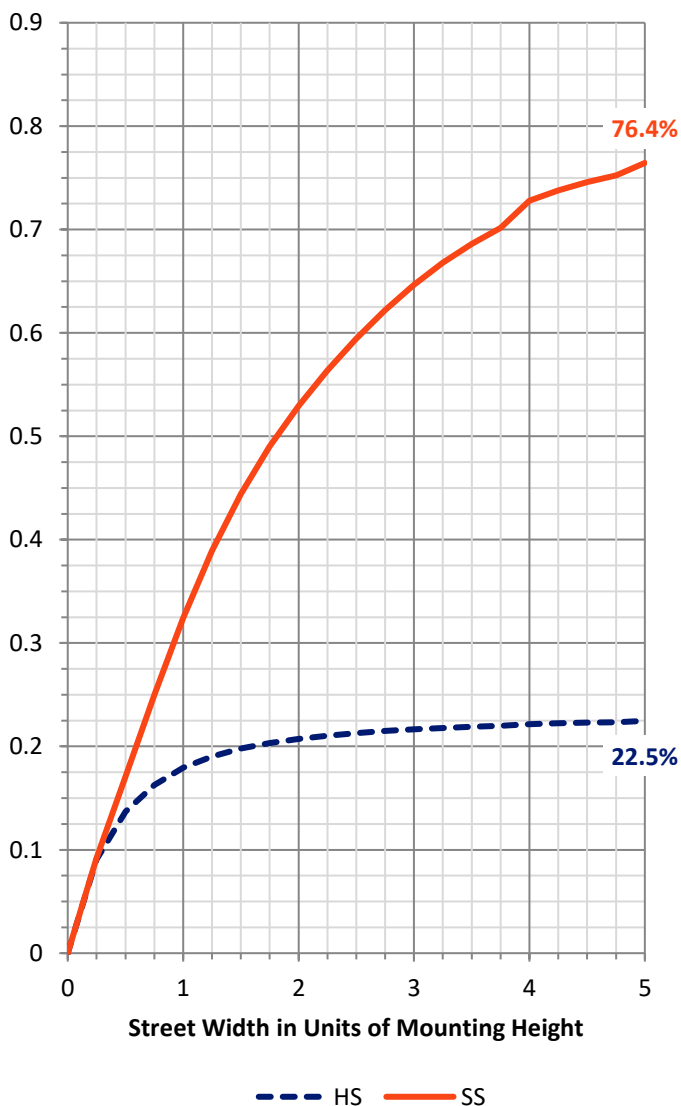
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1313.3	0.0	1313.3
	% Fixture	23.0	0.0	23.0
<b>Street Side</b>	Lumens	4401.0	0.0	4401.0
	% Fixture	77.0	0.0	77.0
<b>Total</b>	Lumens	5714.3	0.0	5714.3
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	74.6	1.3
10°-20°	216.5	3.8
20°-30°	359.2	6.3
30°-40°	532.5	9.3
40°-50°	767.9	13.4
50°-60°	1055.9	18.5
60°-70°	1304.3	22.8
70°-80°	1193.2	20.9
80°-90°	210.1	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°	5714.3	100.0
0°-180°	5714.3	100.0



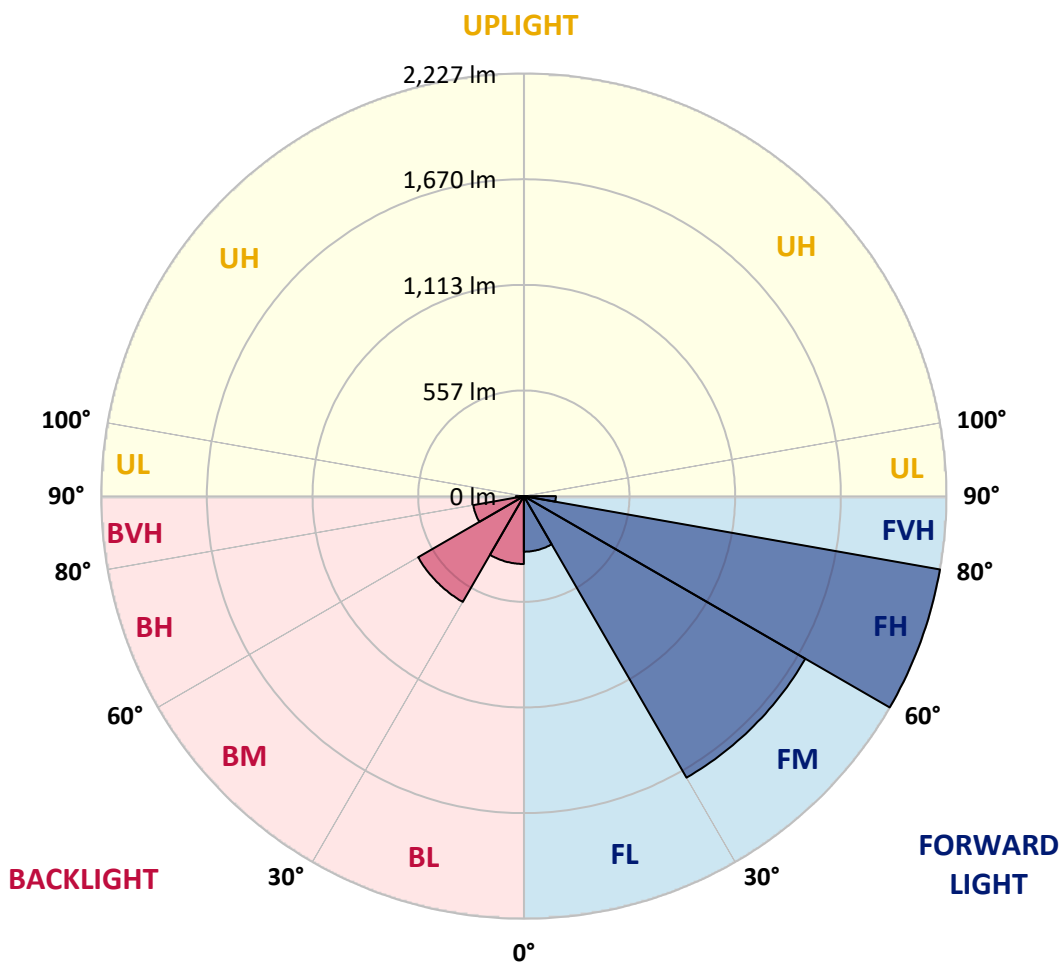
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	292.9	5.1			
FM (30°-60°)	1712.8	30.0			
FH (60°-80°)	2226.7	39.0			G2/5000
FVH (80°-90°)	168.6	3.0			G2/225
BL (0°-30°)	357.5	6.3	B1/500		
BM (30°-60°)	643.5	11.3	B1/1000		
BH (60°-80°)	270.8	4.7	B1/500		G1/500
BVH (80°-90°)	41.5	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°	782.9	782.9	782.9	782.9	782.9	782.9	782.9	782.9	782.9	782.9	782.9
2.5°	709.2	702.9	709.2	713.4	713.4	713.4	719.8	738.7	751.3	759.7	774.5
5°	635.6	637.7	641.9	652.4	658.7	662.9	673.5	696.6	715.5	742.9	774.5
7.5°	570.3	574.5	580.9	591.4	606.1	604.0	627.2	658.7	694.5	730.3	776.6
10°	536.7	545.1	547.2	549.3	564.0	564.0	595.6	631.4	675.6	721.9	776.6
12.5°	543.0	543.0	536.7	534.6	543.0	540.9	568.2	610.3	658.7	724.0	785.0
15°	561.9	561.9	549.3	536.7	549.3	545.1	568.2	601.9	658.7	726.1	801.8
17.5°	587.2	589.3	574.5	553.5	557.7	559.8	576.6	608.2	658.7	730.3	825.0
20°	637.7	627.2	604.0	570.3	585.1	578.7	604.0	631.4	671.3	747.1	858.7
22.5°	681.9	681.9	637.7	608.2	610.3	610.3	633.5	656.6	690.3	770.3	883.9
25°	753.4	749.2	694.5	650.3	654.5	656.6	669.2	696.6	721.9	782.9	915.5
27.5°	843.9	833.4	778.7	728.2	711.3	717.6	724.0	745.0	751.3	803.9	953.4
30°	940.7	926.0	879.7	799.7	791.3	793.4	782.9	795.5	787.1	837.6	991.2
32.5°	1001.8	1001.8	957.6	898.6	875.5	875.5	839.7	848.1	848.1	869.2	1058.6
35°	1054.4	1050.2	1020.7	976.5	961.8	953.4	917.6	930.2	909.2	930.2	1153.3
37.5°	1134.3	1121.7	1109.1	1079.6	1050.2	1043.9	1024.9	1033.3	1003.9	993.3	1260.6
40°	1226.9	1220.6	1208.0	1195.4	1165.9	1163.8	1142.8	1151.2	1119.6	1079.6	1368.0
42.5°	1363.7	1344.8	1304.8	1294.3	1300.6	1309.0	1300.6	1285.9	1229.1	1178.5	1483.7
45°	1500.5	1471.1	1395.3	1378.5	1426.9	1420.6	1456.3	1450.0	1357.4	1277.5	1605.8
47.5°	1588.9	1563.7	1502.6	1492.1	1513.2	1521.6	1628.9	1610.0	1462.7	1368.0	1723.6
50°	1652.1	1654.2	1574.2	1601.6	1628.9	1628.9	1763.6	1761.5	1591.0	1479.5	1877.3
52.5°	1744.7	1715.2	1681.5	1706.8	1744.7	1765.7	1932.0	1885.7	1671.0	1574.2	2049.8
55°	1793.1	1780.4	1751.0	1795.2	1875.1	1885.7	2062.5	2026.7	1761.5	1685.7	2226.6
57.5°	1812.0	1822.5	1870.9	1889.9	2001.4	2028.8	2180.3	2129.8	1845.7	1824.6	2363.4
60°	1896.2	1881.5	1946.7	2022.5	2129.8	2144.5	2327.6	2218.2	1927.8	1915.1	2407.6
62.5°	2066.7	2028.8	2064.6	2155.1	2304.5	2323.4	2483.4	2336.0	1963.5	1976.2	2405.5
65°	2315.0	2287.6	2235.0	2306.6	2517.0	2544.4	2666.5	2437.1	1953.0	1955.1	2235.0
67.5°	2607.5	2563.3	2508.6	2552.8	2809.6	2872.7	2889.5	2481.3	1879.4	1837.3	1818.3
70°	2864.3	2834.8	2799.0	2874.8	3232.6	3255.7	3167.3	2453.9	1675.2	1475.3	1212.2
72.5°	3104.2	3089.5	3110.5	3394.6	3805.0	3819.7	3428.3	2281.3	1323.8	894.4	564.0
75°	3123.1	3108.4	3253.6	3824.0	4522.7	4550.0	3590.3	1788.9	698.7	364.1	237.8
77.5°	2115.1	2159.3	2430.7	3348.3	4154.4	4160.7	2935.8	831.3	288.3	214.7	166.3
80°	519.8	576.6	915.5	1732.0	2801.1	2870.6	1607.9	279.9	189.4	164.2	124.2
82.5°	189.4	206.2	372.5	782.9	1574.2	1601.6	561.9	151.5	136.8	126.3	90.5
85°	90.5	92.6	176.8	385.1	795.5	787.1	202.0	90.5	98.9	86.3	54.7
87.5°	37.9	37.9	77.9	178.9	351.5	340.9	65.2	42.1	56.8	50.5	27.4
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°	782.9	782.9	782.9	782.9	782.9	782.9	782.9	782.9	782.9	782.9	782.9
2.5°	785.0	789.2	806.0	818.7	831.3	841.8	858.7	858.7	869.2	869.2	869.2
5°	782.9	806.0	833.4	862.9	881.8	900.7	917.6	919.7	926.0	934.4	936.5
7.5°	791.3	814.5	858.7	900.7	923.9	932.3	953.4	947.0	947.0	947.0	953.4
10°	808.1	833.4	894.4	932.3	949.1	951.3	944.9	940.7	928.1	923.9	917.6
12.5°	820.8	865.0	926.0	955.5	949.1	942.8	928.1	907.1	892.3	888.1	888.1
15°	852.3	896.5	953.4	963.9	953.4	919.7	900.7	877.6	865.0	846.0	854.4
17.5°	879.7	930.2	980.7	968.1	947.0	894.4	867.1	833.4	816.6	795.5	795.5
20°	915.5	961.8	1006.0	972.3	926.0	869.2	825.0	782.9	759.7	738.7	742.9
22.5°	955.5	997.6	1020.7	955.5	894.4	829.2	768.2	728.2	698.7	686.1	690.3
25°	987.0	1033.3	1029.1	928.1	856.5	778.7	711.3	673.5	667.1	654.5	654.5
27.5°	1027.0	1075.4	1022.8	894.4	793.4	698.7	656.6	641.9	641.9	635.6	639.8
30°	1079.6	1113.3	1008.1	846.0	713.4	627.2	606.1	614.5	629.3	622.9	625.0
32.5°	1165.9	1161.7	995.4	791.3	629.3	557.7	572.4	589.3	601.9	608.2	612.4
35°	1250.1	1222.7	980.7	717.6	551.4	524.0	536.7	555.6	578.7	585.1	587.2
37.5°	1334.3	1285.9	955.5	627.2	503.0	494.6	507.2	517.7	536.7	540.9	545.1
40°	1422.7	1328.0	911.3	538.8	463.0	463.0	471.4	473.5	484.0	490.4	494.6
42.5°	1500.5	1368.0	831.3	456.7	420.9	435.6	437.7	433.5	425.1	429.3	431.4
45°	1595.2	1412.1	738.7	397.8	389.3	408.3	412.5	395.7	380.9	372.5	368.3
47.5°	1687.8	1458.4	658.7	349.4	359.9	389.3	389.3	370.4	345.1	324.1	315.7
50°	1772.0	1504.7	593.5	319.9	330.4	374.6	378.8	343.0	315.7	290.4	286.2
52.5°	1913.0	1582.6	526.1	296.7	313.6	364.1	362.0	330.4	294.6	267.3	265.2
55°	2037.2	1660.5	437.7	273.6	296.7	349.4	355.7	317.8	269.4	244.1	239.9
57.5°	2127.7	1679.4	349.4	250.4	279.9	332.5	340.9	292.5	252.5	231.5	229.4
60°	2144.5	1605.8	284.1	231.5	256.8	309.4	315.7	277.8	239.9	223.1	218.9
62.5°	2066.7	1464.8	242.0	214.7	237.8	286.2	298.8	261.0	227.3	212.6	210.5
65°	1889.9	1258.5	212.6	199.9	225.2	269.4	284.1	248.3	216.8	204.1	202.0
67.5°	1496.3	966.0	189.4	189.4	208.3	252.5	273.6	239.9	206.2	197.8	195.7
70°	978.6	580.9	172.6	174.7	195.7	237.8	261.0	229.4	193.6	191.5	187.3
72.5°	420.9	267.3	153.6	159.9	176.8	212.6	242.0	214.7	178.9	172.6	166.3
75°	193.6	162.0	138.9	143.1	157.8	187.3	218.9	197.8	166.3	155.7	149.4
77.5°	136.8	117.9	115.7	124.2	134.7	162.0	193.6	185.2	153.6	145.2	141.0
80°	101.0	90.5	96.8	105.2	111.5	149.4	183.1	170.5	141.0	128.4	122.1
82.5°	71.6	67.3	75.8	84.2	90.5	130.5	168.4	149.4	117.9	107.3	96.8
85°	42.1	44.2	52.6	56.8	63.1	96.8	141.0	120.0	90.5	69.4	67.3
87.5°	18.9	18.9	25.3	27.4	31.6	56.8	94.7	75.8	56.8	44.2	42.1
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)