

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: P670932

Luminaire Tested: **CCP-SA-2B-727-U-T4FT**

Issue Date: 04/16/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P670932  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 04/16/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCP-SA-2B-727-U-T4FT  
Description: INVUE CLEAR CURVE POLE MOUNT LIGHT SQUARE LUMINAIRE @450mA w/ T4FT distribution lens  
Light Source: (32) 2700K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

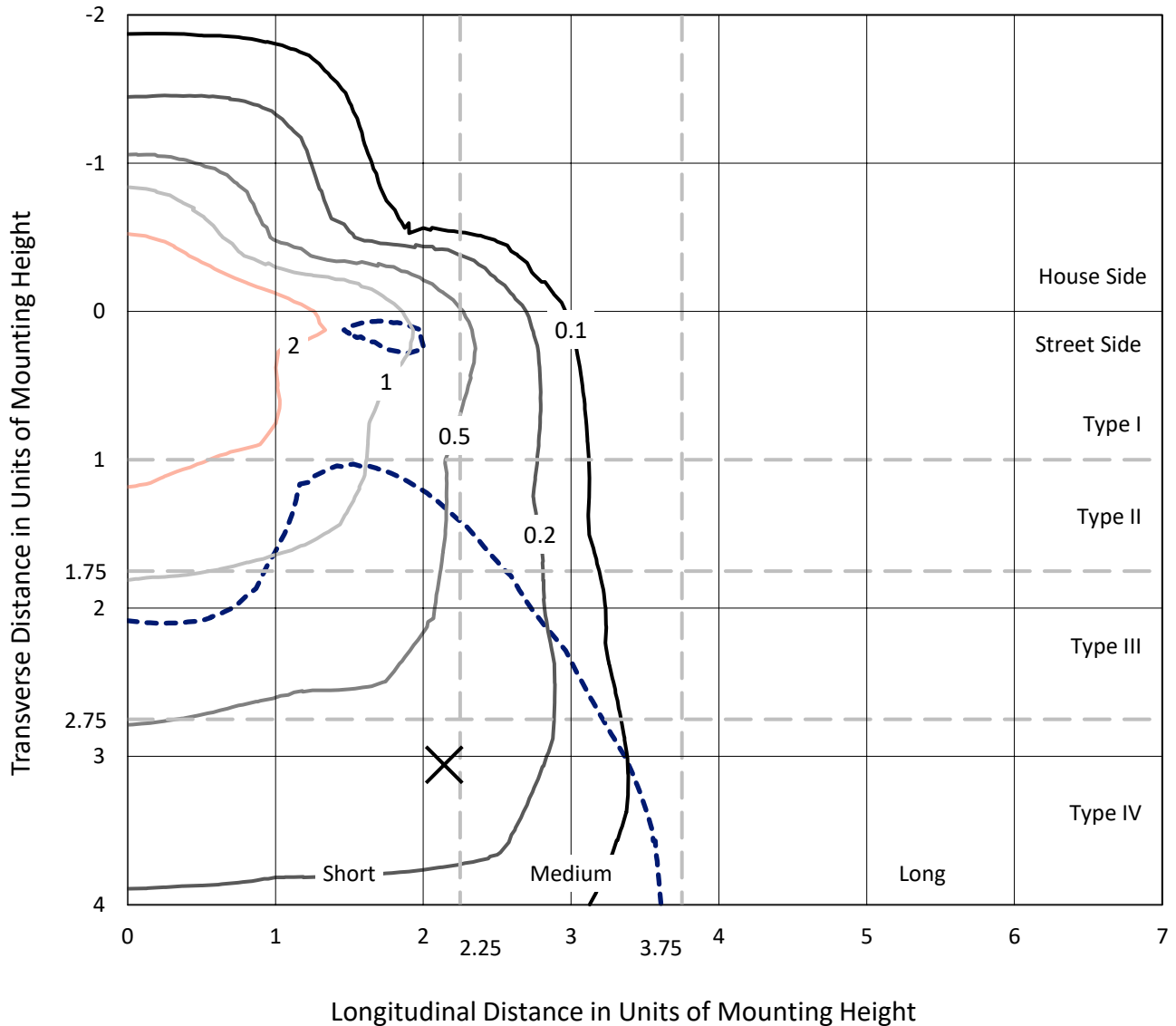
Lumens per Lamp: N/A  
Luminaire Lumens: 5772.1 lumens  
Efficiency: N/A  
Efficacy: 125.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G2

Input Watts (W): 46  
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

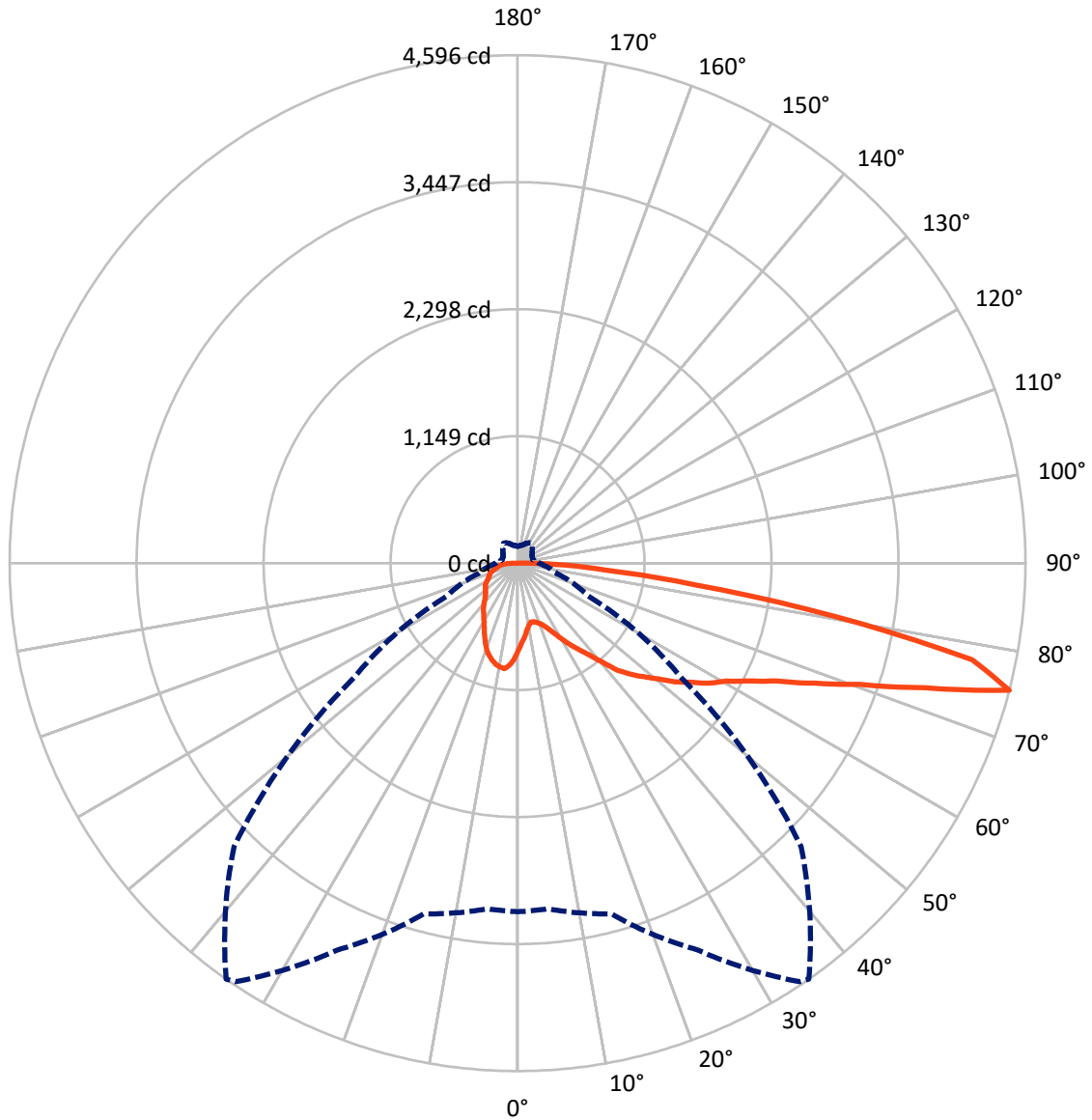
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 4.2 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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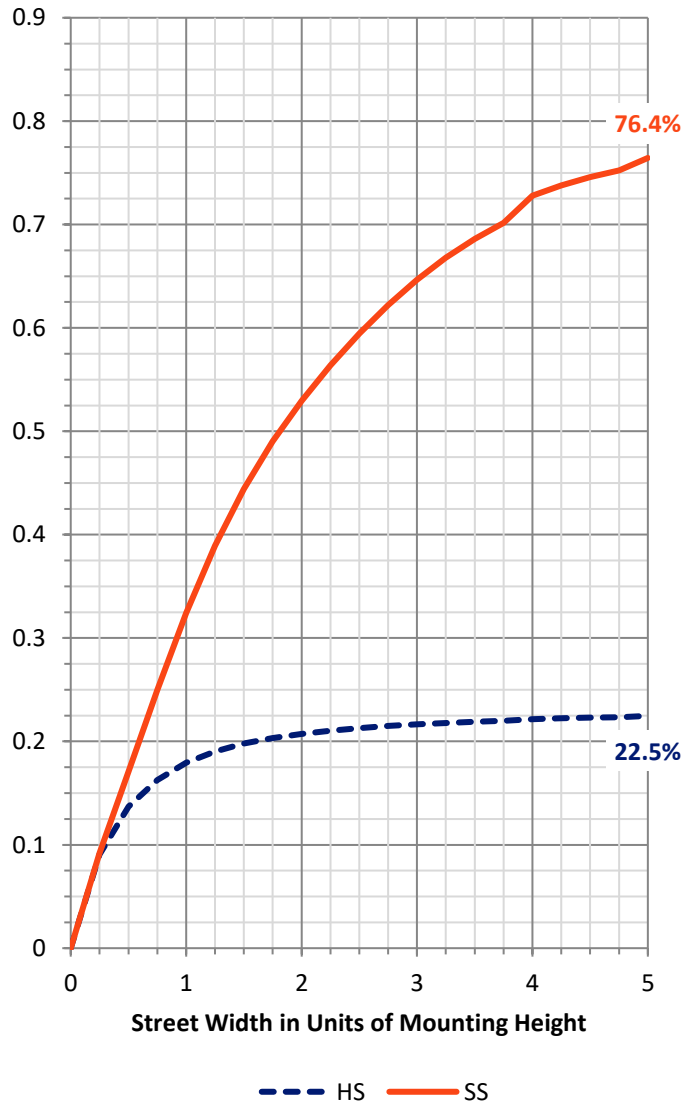
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1326.6	0.0	1326.6
	% Fixture	23.0	0.0	23.0
<b>Street Side</b>	Lumens	4445.5	0.0	4445.5
	% Fixture	77.0	0.0	77.0
<b>Total</b>	Lumens	5772.1	0.0	5772.1
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	75.3	1.3
10°-20°	218.7	3.8
20°-30°	362.9	6.3
30°-40°	537.9	9.3
40°-50°	775.6	13.4
50°-60°	1066.6	18.5
60°-70°	1317.5	22.8
70°-80°	1205.3	20.9
80°-90°	212.2	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°	5772.1	100.0
0°-180°	5772.1	100.0



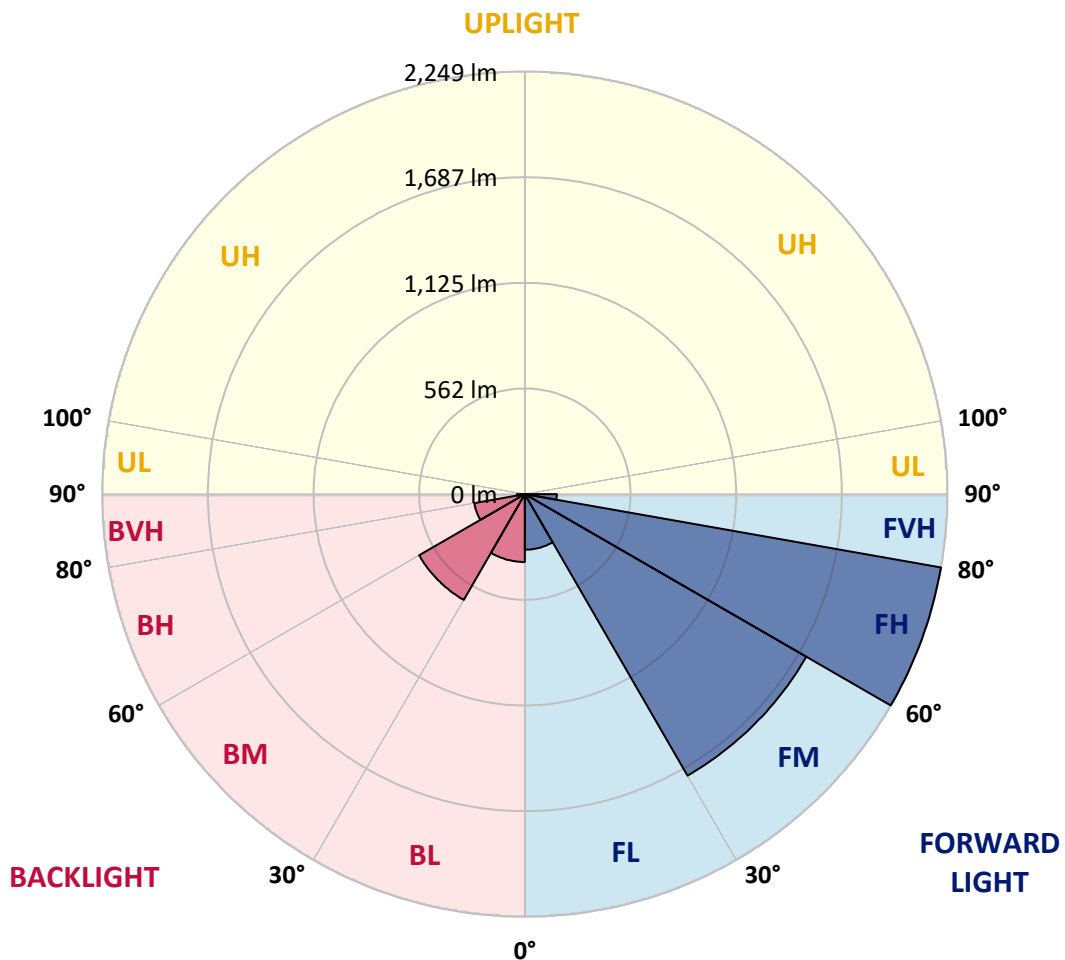
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	295.9	5.1			
FM (30°-60°)	1730.1	30.0			
FH (60°-80°)	2249.3	39.0			G2/5000
FVH (80°-90°)	170.3	3.0			G2/225
BL (0°-30°)	361.1	6.3	B1/500		
BM (30°-60°)	650.1	11.3	B1/1000		
BH (60°-80°)	273.5	4.7	B1/500		G1/500
BVH (80°-90°)	41.9	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 IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	790.8	790.8	790.8	790.8	790.8	790.8	790.8	790.8	790.8	790.8	790.8
2.5°	716.4	710.0	716.4	720.7	720.7	720.7	727.0	746.2	758.9	767.4	782.3
5°	642.0	644.1	648.4	659.0	665.4	669.6	680.3	703.7	722.8	750.4	782.3
7.5°	576.1	580.4	586.7	597.4	612.2	610.1	633.5	665.4	701.5	737.7	784.4
10°	542.1	550.6	552.7	554.8	569.7	569.7	601.6	637.8	682.4	729.2	784.4
12.5°	548.5	548.5	542.1	540.0	548.5	546.3	574.0	616.5	665.4	731.3	792.9
15°	567.6	567.6	554.8	542.1	554.8	550.6	574.0	608.0	665.4	733.4	809.9
17.5°	593.1	595.2	580.4	559.1	563.3	565.5	582.5	614.4	665.4	737.7	833.3
20°	644.1	633.5	610.1	576.1	591.0	584.6	610.1	637.8	678.1	754.7	867.3
22.5°	688.8	688.8	644.1	614.4	616.5	616.5	639.9	663.3	697.3	778.1	892.9
25°	761.0	756.8	701.5	656.9	661.1	663.3	676.0	703.7	729.2	790.8	924.7
27.5°	852.5	841.8	786.6	735.5	718.5	724.9	731.3	752.5	758.9	812.1	963.0
30°	950.2	935.4	888.6	807.8	799.3	801.4	790.8	803.6	795.1	846.1	1001.3
32.5°	1011.9	1011.9	967.3	907.7	884.3	884.3	848.2	856.7	856.7	878.0	1069.3
35°	1065.0	1060.8	1031.0	986.4	971.5	963.0	926.9	939.6	918.4	939.6	1165.0
37.5°	1145.8	1133.1	1120.3	1090.6	1060.8	1054.4	1035.3	1043.8	1014.0	1003.4	1273.4
40°	1239.4	1233.0	1220.2	1207.5	1177.7	1175.6	1154.3	1162.8	1130.9	1090.6	1381.8
42.5°	1377.5	1358.4	1318.0	1307.4	1313.8	1322.3	1313.8	1298.9	1241.5	1190.5	1498.7
45°	1515.7	1486.0	1409.4	1392.4	1441.3	1434.9	1471.1	1464.7	1371.2	1290.4	1622.0
47.5°	1605.0	1579.5	1517.8	1507.2	1528.5	1537.0	1645.4	1626.3	1477.5	1381.8	1741.1
50°	1668.8	1670.9	1590.1	1617.8	1645.4	1645.4	1781.4	1779.3	1607.1	1494.5	1896.2
52.5°	1762.3	1732.6	1698.5	1724.1	1762.3	1783.6	1951.5	1904.7	1687.9	1590.1	2070.6
55°	1811.2	1798.5	1768.7	1813.3	1894.1	1904.7	2083.3	2047.2	1779.3	1702.8	2249.1
57.5°	1830.3	1841.0	1889.9	1909.0	2021.7	2049.3	2202.4	2151.3	1864.4	1843.1	2387.3
60°	1915.4	1900.5	1966.4	2042.9	2151.3	2166.2	2351.2	2240.6	1947.3	1934.5	2432.0
62.5°	2087.6	2049.3	2085.4	2176.9	2327.8	2346.9	2508.5	2359.7	1983.4	1996.2	2429.8
65°	2338.4	2310.8	2257.6	2329.9	2542.5	2570.1	2693.4	2461.7	1972.8	1974.9	2257.6
67.5°	2633.9	2589.3	2534.0	2578.6	2838.0	2901.8	2918.8	2506.4	1898.4	1855.9	1836.7
70°	2893.3	2863.5	2827.4	2903.9	3265.3	3288.7	3199.4	2478.7	1692.2	1490.2	1224.5
72.5°	3135.6	3120.7	3142.0	3429.0	3843.5	3858.4	3463.0	2304.4	1337.1	903.5	569.7
75°	3154.7	3139.9	3286.5	3862.6	4568.4	4596.1	3626.7	1807.0	705.8	367.8	240.2
77.5°	2136.5	2181.1	2455.3	3382.2	4196.4	4202.8	2965.5	839.7	291.2	216.8	167.9
80°	525.1	582.5	924.7	1749.6	2829.5	2899.6	1624.1	282.7	191.3	165.8	125.4
82.5°	191.3	208.3	376.3	790.8	1590.1	1617.8	567.6	153.1	138.2	127.6	91.4
85°	91.4	93.5	178.6	389.0	803.6	795.1	204.1	91.4	99.9	87.2	55.3
87.5°	38.3	38.3	78.7	180.7	355.0	344.4	65.9	42.5	57.4	51.0	27.6
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°	790.8	790.8	790.8	790.8	790.8	790.8	790.8	790.8	790.8	790.8	790.8
2.5°	792.9	797.2	814.2	826.9	839.7	850.3	867.3	867.3	878.0	878.0	878.0
5°	790.8	814.2	841.8	871.6	890.7	909.9	926.9	929.0	935.4	943.9	946.0
7.5°	799.3	822.7	867.3	909.9	933.2	941.7	963.0	956.6	956.6	956.6	963.0
10°	816.3	841.8	903.5	941.7	958.8	960.9	954.5	950.2	937.5	933.2	926.9
12.5°	829.1	873.7	935.4	965.1	958.8	952.4	937.5	916.2	901.4	897.1	897.1
15°	861.0	905.6	963.0	973.6	963.0	929.0	909.9	886.5	873.7	854.6	863.1
17.5°	888.6	939.6	990.6	977.9	956.6	903.5	875.8	841.8	824.8	803.6	803.6
20°	924.7	971.5	1016.1	982.1	935.4	878.0	833.3	790.8	767.4	746.2	750.4
22.5°	965.1	1007.6	1031.0	965.1	903.5	837.6	775.9	735.5	705.8	693.0	697.3
25°	997.0	1043.8	1039.5	937.5	865.2	786.6	718.5	680.3	673.9	661.1	661.1
27.5°	1037.4	1086.3	1033.2	903.5	801.4	705.8	663.3	648.4	648.4	642.0	646.3
30°	1090.6	1124.6	1018.3	854.6	720.7	633.5	612.2	620.7	635.6	629.2	631.4
32.5°	1177.7	1173.5	1005.5	799.3	635.6	563.3	578.2	595.2	608.0	614.4	618.6
35°	1262.7	1235.1	990.6	724.9	557.0	529.3	542.1	561.2	584.6	591.0	593.1
37.5°	1347.8	1298.9	965.1	633.5	508.1	499.6	512.3	523.0	542.1	546.3	550.6
40°	1437.1	1341.4	920.5	544.2	467.7	467.7	476.2	478.3	488.9	495.3	499.6
42.5°	1515.7	1381.8	839.7	461.3	425.2	440.0	442.2	437.9	429.4	433.7	435.8
45°	1611.4	1426.4	746.2	401.8	393.3	412.4	416.7	399.7	384.8	376.3	372.0
47.5°	1704.9	1473.2	665.4	352.9	363.5	393.3	393.3	374.1	348.6	327.4	318.9
50°	1790.0	1520.0	599.5	323.1	333.8	378.4	382.7	346.5	318.9	293.4	289.1
52.5°	1932.4	1598.6	531.5	299.7	316.7	367.8	365.6	333.8	297.6	270.0	267.9
55°	2057.8	1677.3	442.2	276.4	299.7	352.9	359.3	321.0	272.1	246.6	242.3
57.5°	2149.2	1696.4	352.9	253.0	282.7	335.9	344.4	295.5	255.1	233.8	231.7
60°	2166.2	1622.0	287.0	233.8	259.4	312.5	318.9	280.6	242.3	225.3	221.1
62.5°	2087.6	1479.6	244.5	216.8	240.2	289.1	301.9	263.6	229.6	214.7	212.6
65°	1909.0	1271.2	214.7	202.0	227.5	272.1	287.0	250.8	219.0	206.2	204.1
67.5°	1511.5	975.8	191.3	191.3	210.5	255.1	276.4	242.3	208.3	199.8	197.7
70°	988.5	586.7	174.3	176.4	197.7	240.2	263.6	231.7	195.6	193.5	189.2
72.5°	425.2	270.0	155.2	161.6	178.6	214.7	244.5	216.8	180.7	174.3	167.9
75°	195.6	163.7	140.3	144.6	159.4	189.2	221.1	199.8	167.9	157.3	150.9
77.5°	138.2	119.0	116.9	125.4	136.1	163.7	195.6	187.1	155.2	146.7	142.4
80°	102.0	91.4	97.8	106.3	112.7	150.9	184.9	172.2	142.4	129.7	123.3
82.5°	72.3	68.0	76.5	85.0	91.4	131.8	170.1	150.9	119.0	108.4	97.8
85°	42.5	44.6	53.1	57.4	63.8	97.8	142.4	121.2	91.4	70.2	68.0
87.5°	19.1	19.1	25.5	27.6	31.9	57.4	95.7	76.5	57.4	44.6	42.5
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)