

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: P672174

Luminaire Tested: **CCP-SA-2D-835-U-T2R**

Issue Date: 04/16/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P672174  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 04/16/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCP-SA-2D-835-U-T2R  
Description: INVUE CLEAR CURVE POLE MOUNT LIGHT SQUARE LUMINAIRE @800mA w/ T2R distribution lens  
Light Source: (32) 3500K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

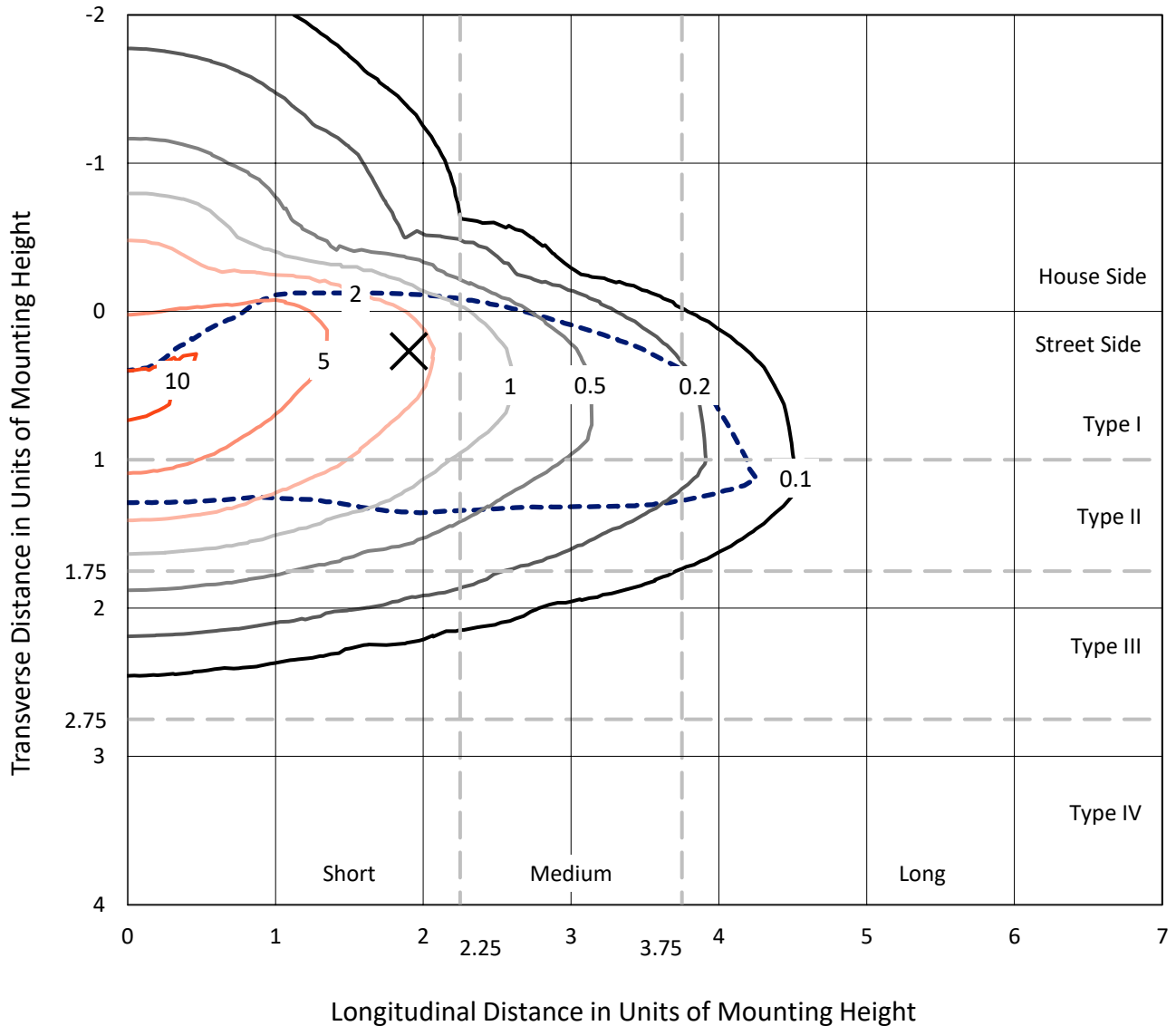
Lumens per Lamp: N/A  
Luminaire Lumens: 9334.8 lumens  
Efficiency: N/A  
Efficacy: 115.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G2

Input Watts (W): 80.8  
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

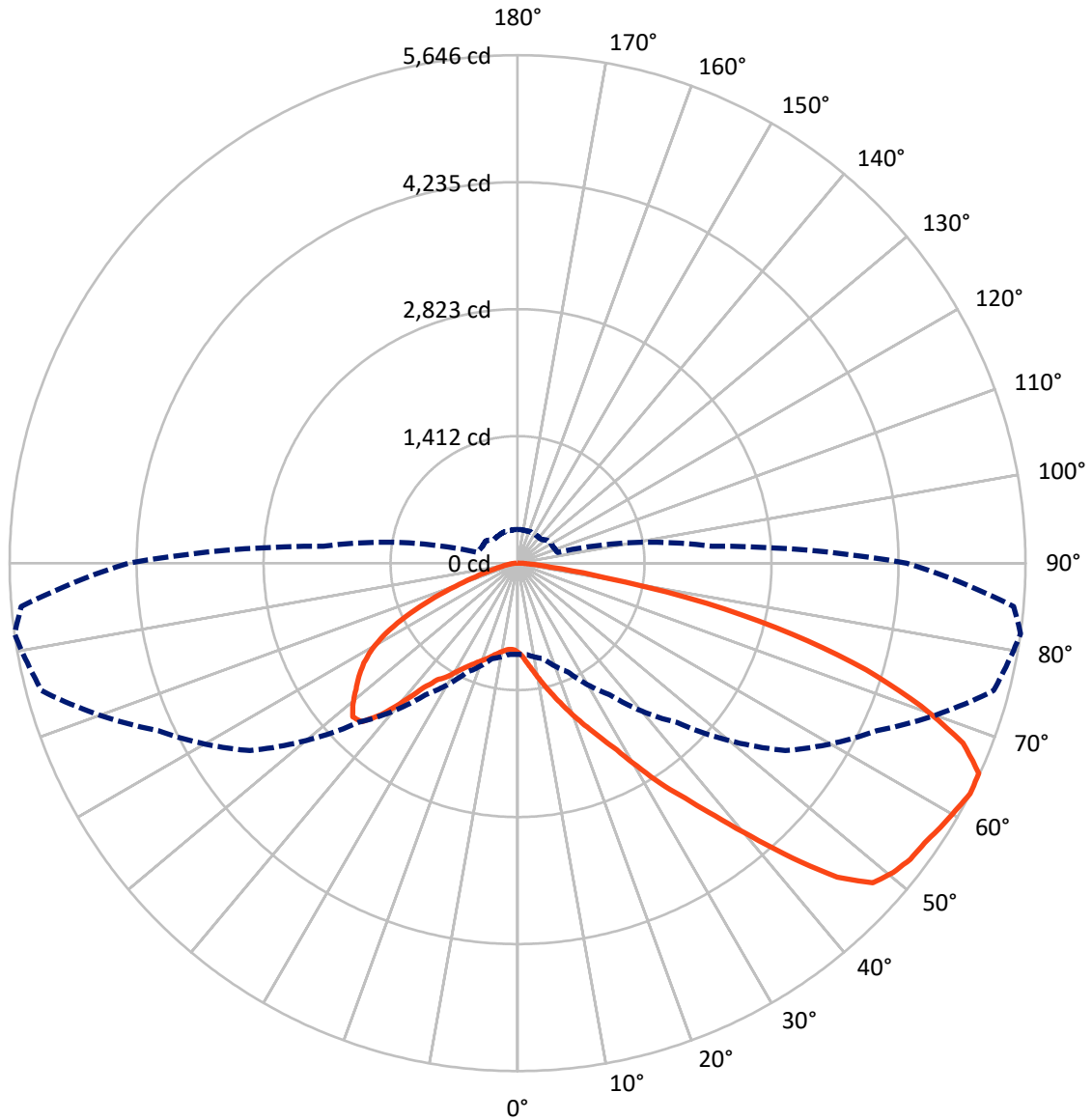
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 10.9 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 82-Deg Lateral    - - - Horizontal Cone Through 62.5-Deg Vertical

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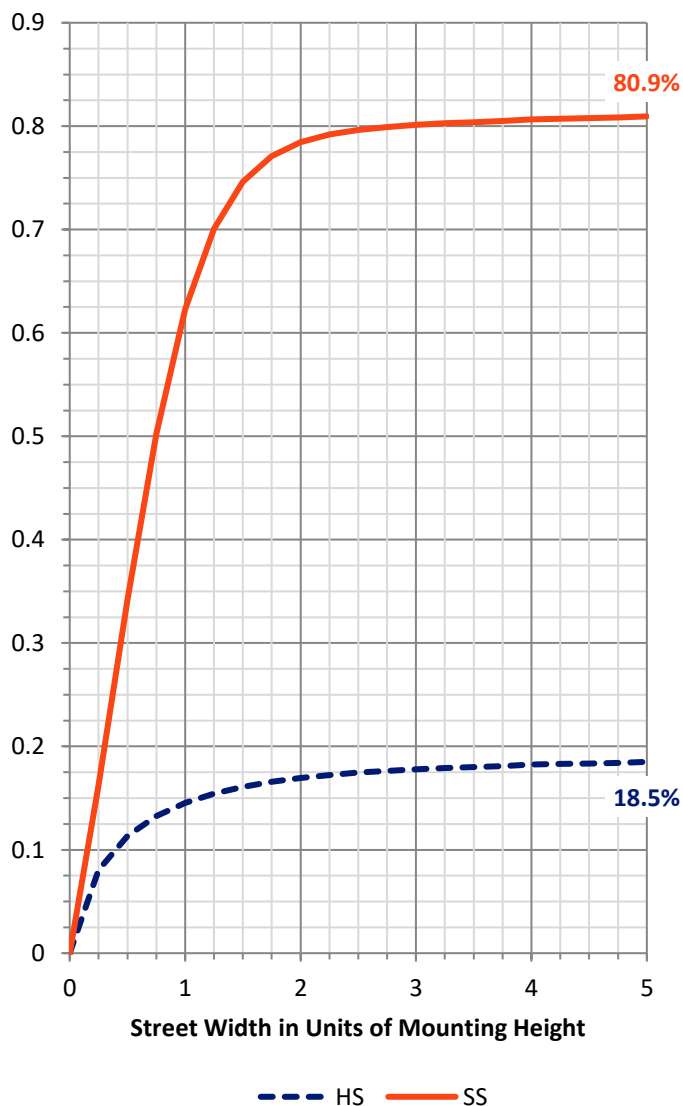
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1758.6	0.0	1758.6
	% Fixture	18.8	0.0	18.8
<b>Street Side</b>	Lumens	7576.1	0.0	7576.1
	% Fixture	81.2	0.0	81.2
<b>Total</b>	Lumens	9334.8	0.0	9334.8
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	109.8	1.2
10°-20°	414.3	4.4
20°-30°	858.0	9.2
30°-40°	1456.3	15.6
40°-50°	1983.2	21.2
50°-60°	2007.4	21.5
60°-70°	1582.1	16.9
70°-80°	779.4	8.3
80°-90°	144.2	1.5
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°	9334.8	100.0
0°-180°	9334.8	100.0



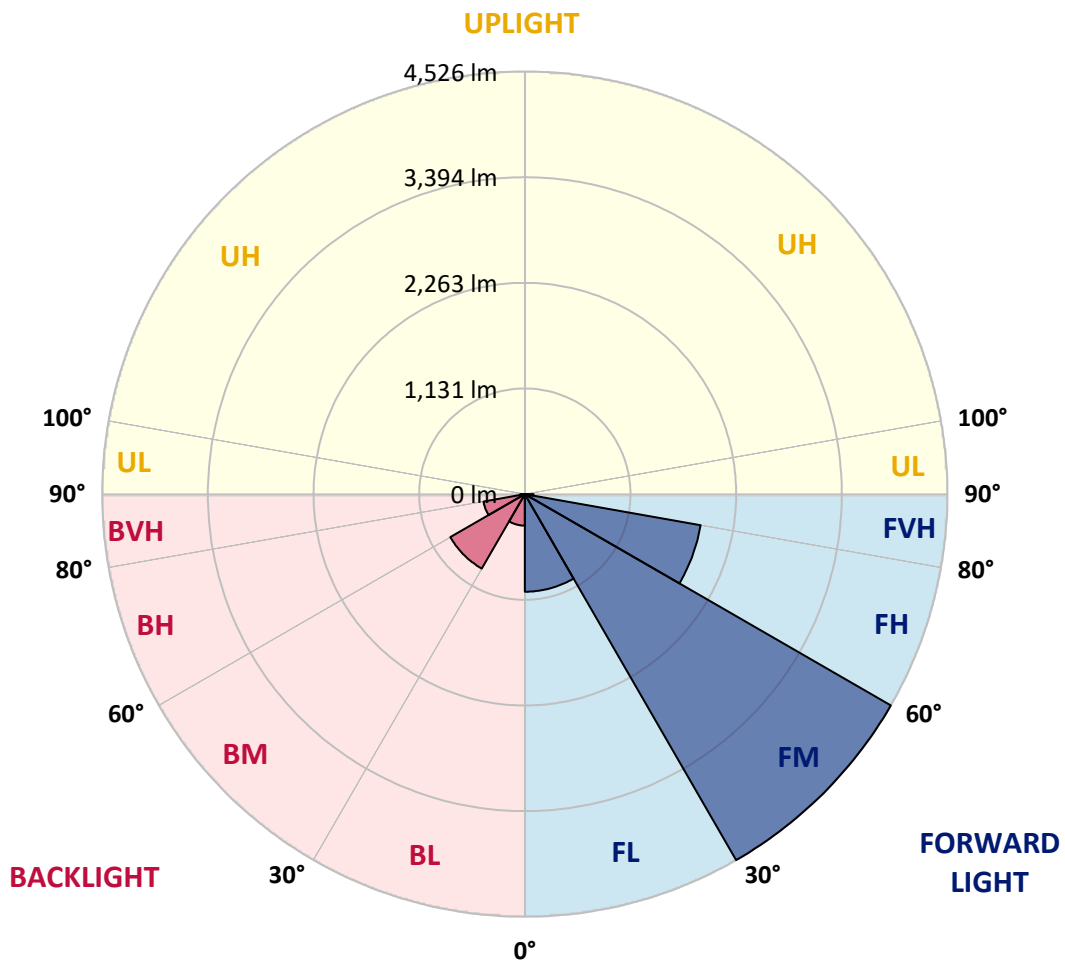
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1044.8	11.2			
FM (30°-60°)	4525.8	48.5			
FH (60°-80°)	1911.9	20.5			G2/5000
FVH (80°-90°)	93.7	1.0			G1/100
BL (0°-30°)	337.4	3.6	B1/500		
BM (30°-60°)	921.1	9.9	B1/1000		
BH (60°-80°)	449.5	4.8	B1/500		G1/500
BVH (80°-90°)	50.5	0.5			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 II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°	85°
0°	992.7	992.7	992.7	992.7	992.7	992.7	992.7	992.7	992.7	992.7	992.7
2.5°	1322.0	1301.9	1291.1	1279.0	1245.4	1223.9	1183.6	1136.5	1082.1	1035.7	1027.0
5°	1600.9	1580.8	1583.5	1553.9	1504.8	1459.1	1383.8	1295.1	1191.6	1112.3	1084.8
7.5°	1797.9	1775.7	1781.1	1769.0	1729.3	1678.9	1583.5	1469.2	1318.0	1200.4	1156.0
10°	1929.6	1932.3	1936.3	1931.6	1906.1	1870.4	1775.7	1649.3	1461.1	1304.5	1244.1
12.5°	2078.8	2086.2	2084.8	2086.9	2073.4	2045.2	1952.4	1833.5	1613.7	1416.8	1338.1
15°	2269.0	2261.6	2267.7	2276.4	2261.6	2230.7	2148.7	2007.6	1773.7	1541.8	1444.3
17.5°	2477.3	2461.9	2478.0	2469.3	2458.5	2438.4	2348.3	2197.8	1939.0	1676.9	1562.6
20°	2657.5	2647.4	2656.1	2657.5	2659.5	2655.5	2562.7	2402.7	2112.4	1824.1	1690.3
22.5°	2859.8	2855.1	2853.7	2854.4	2856.4	2861.1	2797.9	2627.2	2304.6	1978.7	1828.1
25°	3142.7	3138.0	3107.1	3072.8	3052.7	3067.5	3034.5	2882.0	2517.0	2152.1	1979.3
27.5°	3460.0	3452.6	3411.6	3324.9	3260.3	3271.1	3267.7	3162.9	2761.6	2351.0	2160.8
30°	3789.3	3771.1	3714.7	3593.0	3491.5	3472.7	3482.1	3447.2	3069.5	2615.1	2413.5
32.5°	4083.0	4049.4	3974.8	3851.8	3730.8	3676.4	3677.7	3693.2	3404.2	2923.0	2678.3
35°	4262.4	4240.3	4184.5	4060.1	3925.0	3888.8	3878.7	3956.0	3711.3	3207.9	2915.6
37.5°	4359.2	4337.7	4277.9	4177.8	4075.6	4060.8	4079.6	4199.3	4060.1	3563.5	3238.2
40°	4341.7	4318.9	4279.9	4210.0	4142.8	4154.2	4237.6	4422.4	4441.2	3988.9	3697.9
42.5°	4197.9	4173.7	4170.4	4165.7	4134.1	4184.5	4335.0	4585.7	4791.4	4480.2	4254.4
45°	3943.9	3929.1	3946.6	4027.2	4066.9	4164.3	4380.7	4665.0	5099.2	4979.6	4780.6
47.5°	3621.9	3613.2	3652.8	3780.5	3908.9	4102.5	4411.0	4686.5	5310.9	5310.9	5125.4
50°	3261.7	3258.3	3310.8	3496.2	3697.2	3988.9	4407.6	4706.7	5403.7	5408.4	5247.1
52.5°	2759.0	2776.4	2916.2	3160.9	3433.7	3810.8	4360.6	4763.2	5456.1	5466.8	5328.4
55°	2179.6	2196.4	2407.5	2736.8	3086.3	3594.4	4220.1	4746.3	5466.2	5490.4	5374.8
57.5°	1740.1	1743.4	1875.2	2266.3	2699.1	3317.5	4058.1	4634.8	5436.6	5542.1	5446.0
60°	1361.7	1372.4	1460.5	1770.3	2250.2	2960.6	3877.3	4524.6	5453.4	5591.2	5510.5
62.5°	1014.2	1016.9	1098.9	1338.8	1787.8	2505.6	3632.0	4406.9	5476.9	5646.3	5536.7
65°	660.7	660.0	739.3	955.7	1335.5	2014.3	3246.9	4222.8	5478.9	5634.2	5416.4
67.5°	420.1	422.7	457.0	593.5	893.9	1520.3	2722.7	3880.7	5383.5	5341.2	4978.2
70°	340.8	341.4	352.2	387.8	544.4	1039.1	2046.5	3345.7	5081.7	4757.1	4327.0
72.5°	303.8	304.5	309.8	313.9	362.9	624.4	1342.8	2716.6	4545.4	4054.8	3589.7
75°	272.9	272.9	276.2	272.2	297.7	391.8	762.2	2042.5	3743.6	3157.5	2711.9
77.5°	239.3	238.6	238.6	236.6	257.4	286.3	381.8	1425.5	2696.5	2153.4	1758.9
80°	203.0	201.6	203.6	202.3	222.5	217.1	222.5	879.8	1461.8	987.3	748.7
82.5°	157.9	157.9	164.0	165.3	183.5	157.3	156.6	417.4	555.2	369.0	276.2
85°	82.7	92.7	125.0	130.4	138.5	98.8	114.9	194.9	222.5	141.1	100.8
87.5°	24.9	26.2	76.6	86.0	85.4	49.7	70.6	94.1	104.2	62.5	41.0
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°	992.7	992.7	992.7	992.7	992.7	992.7	992.7	992.7	992.7	992.7	992.7
2.5°	1004.8	981.3	931.5	887.2	853.6	821.3	799.1	787.7	772.9	774.9	770.2
5°	1035.7	987.3	899.3	828.0	780.3	744.0	721.8	710.4	699.7	694.3	698.3
7.5°	1082.1	1006.8	883.8	797.8	748.0	717.1	705.0	701.7	699.0	697.0	700.3
10°	1141.9	1041.1	881.1	787.0	741.3	722.5	717.8	715.8	713.1	710.4	712.4
12.5°	1203.1	1078.7	890.5	789.7	752.1	738.0	731.9	729.2	722.5	719.1	719.8
15°	1279.7	1124.4	903.3	800.5	766.2	748.0	740.0	732.6	721.8	717.1	719.1
17.5°	1361.7	1178.9	920.8	810.5	771.6	749.4	733.3	722.5	711.8	705.0	705.7
20°	1454.4	1232.6	936.2	813.9	768.9	738.0	718.5	705.7	691.6	684.2	682.2
22.5°	1550.5	1289.1	948.3	811.2	754.1	718.5	696.3	680.8	664.0	652.6	653.3
25°	1667.5	1365.7	958.4	801.8	734.6	692.9	668.1	648.6	631.1	620.3	621.0
27.5°	1807.9	1452.4	970.5	787.0	711.1	665.4	636.5	617.0	600.2	590.1	588.8
30°	1995.5	1565.3	984.0	768.9	681.5	635.1	606.9	586.7	570.6	561.2	561.2
32.5°	2206.5	1703.1	993.4	747.4	648.6	602.9	577.3	561.2	549.1	536.3	535.0
35°	2390.0	1810.0	1022.3	730.6	619.7	572.6	555.2	543.7	525.6	513.5	511.5
37.5°	2659.5	1998.1	1107.6	725.9	584.7	549.1	545.7	524.2	503.4	480.5	478.5
40°	3093.7	2324.1	1207.1	703.0	548.4	536.3	533.0	504.1	455.0	440.9	438.2
42.5°	3646.1	2716.6	1217.8	636.5	522.9	525.6	515.5	459.0	437.5	426.8	424.1
45°	4144.8	3035.2	1156.7	568.6	504.1	509.4	488.6	442.2	430.1	420.1	417.4
47.5°	4425.1	3133.3	1041.1	517.5	490.0	495.3	445.6	434.2	422.1	412.0	409.3
50°	4503.7	3048.0	906.7	487.9	479.2	481.2	434.2	427.5	416.7	408.6	404.6
52.5°	4519.2	2920.3	782.3	470.5	471.1	453.0	424.1	418.7	412.0	399.2	394.5
55°	4525.9	2805.3	670.8	459.7	465.8	416.7	413.3	409.3	403.9	390.5	387.8
57.5°	4543.4	2658.1	583.4	451.6	459.0	399.9	401.2	398.6	391.8	385.8	384.4
60°	4493.6	2454.5	516.2	443.6	449.6	385.8	387.1	388.5	382.4	381.1	380.4
62.5°	4327.0	2165.5	459.0	432.8	430.1	371.7	371.7	377.0	371.7	373.7	373.7
65°	3983.5	1797.2	408.0	412.7	399.9	356.2	355.5	364.9	356.9	365.6	366.3
67.5°	3398.1	1360.3	355.5	381.1	368.3	340.1	342.8	350.2	339.4	357.6	357.6
70°	2689.7	925.5	301.1	336.7	336.0	321.9	330.7	330.0	317.9	344.8	340.1
72.5°	2003.5	594.1	245.3	282.3	293.7	302.4	318.6	304.5	293.0	308.5	294.4
75°	1400.0	372.3	193.6	223.1	244.6	280.9	303.8	275.6	258.8	254.1	250.0
77.5°	838.1	237.9	152.6	170.0	190.9	255.4	285.0	245.3	219.8	217.1	209.0
80°	386.5	155.3	116.3	127.0	135.8	219.1	259.4	209.7	178.8	176.1	166.7
82.5°	174.7	102.2	86.7	90.7	91.4	174.1	219.1	166.0	136.4	221.1	191.5
85°	81.3	65.9	56.5	53.8	54.4	116.3	159.3	114.3	155.3	121.0	92.1
87.5°	34.9	33.6	28.9	22.9	20.8	24.9	61.2	47.7	67.9	26.9	18.1
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)