

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: P672186

Luminaire Tested: **CCP-SA-2E-840-U-T2R**

Issue Date: 04/16/2023



Test Information

Test Method: LM-79-08
Report Number: P672186
Test Lab: INNOVATION CENTER(G2)
Issue Date: 04/16/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCP-SA-2E-840-U-T2R
Description: INVUE CLEAR CURVE POLE MOUNT LIGHT SQUARE LUMINAIRE @1050mA w/ T2R distribution lens
Light Source: (32) 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

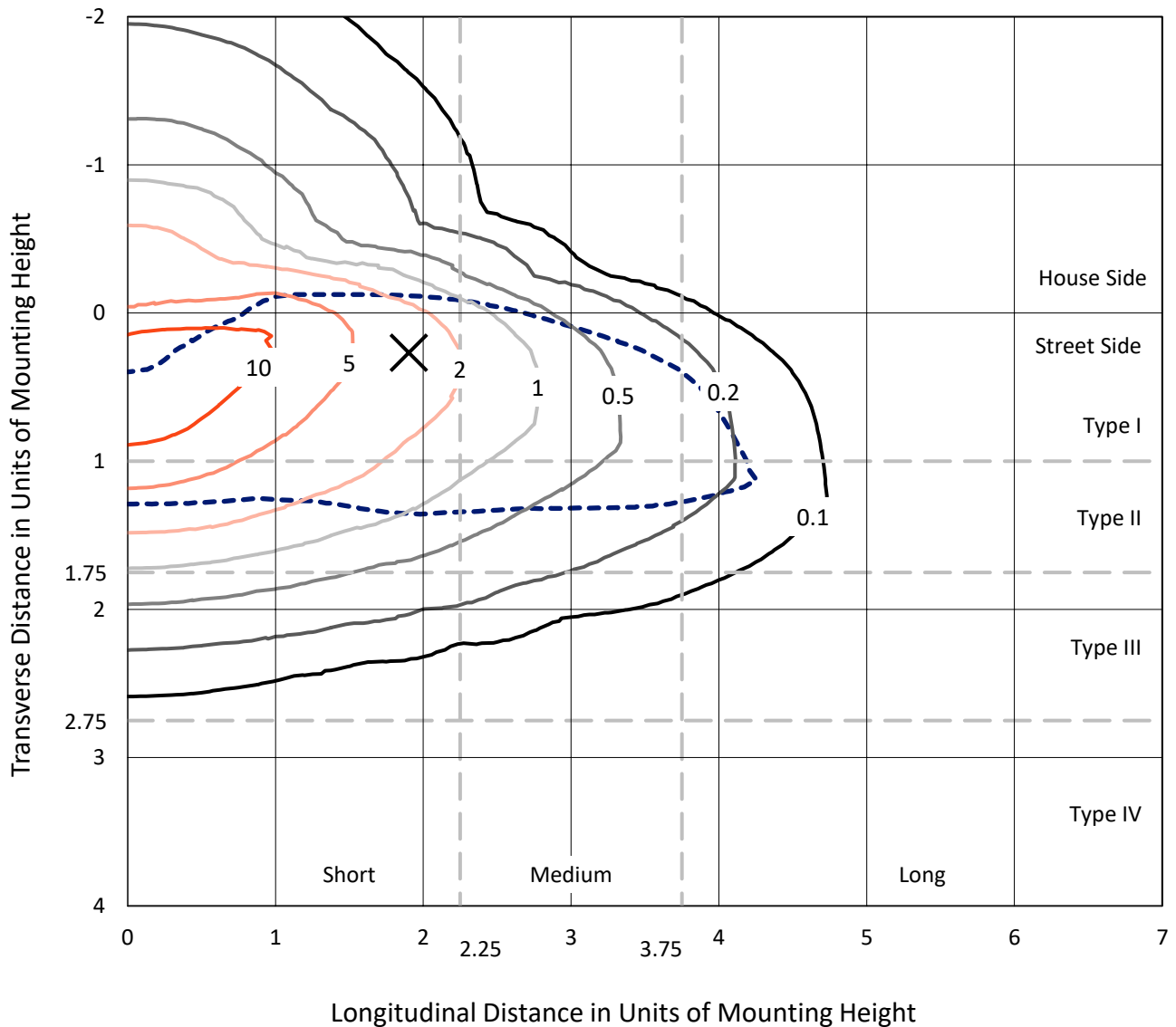
Lumens per Lamp: N/A
Luminaire Lumens: 11841.4 lumens
Efficiency: N/A
Efficacy: 111.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

Input Watts (W): 106.6
Input Voltage (V): 120
Input Current (A_{in}): 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

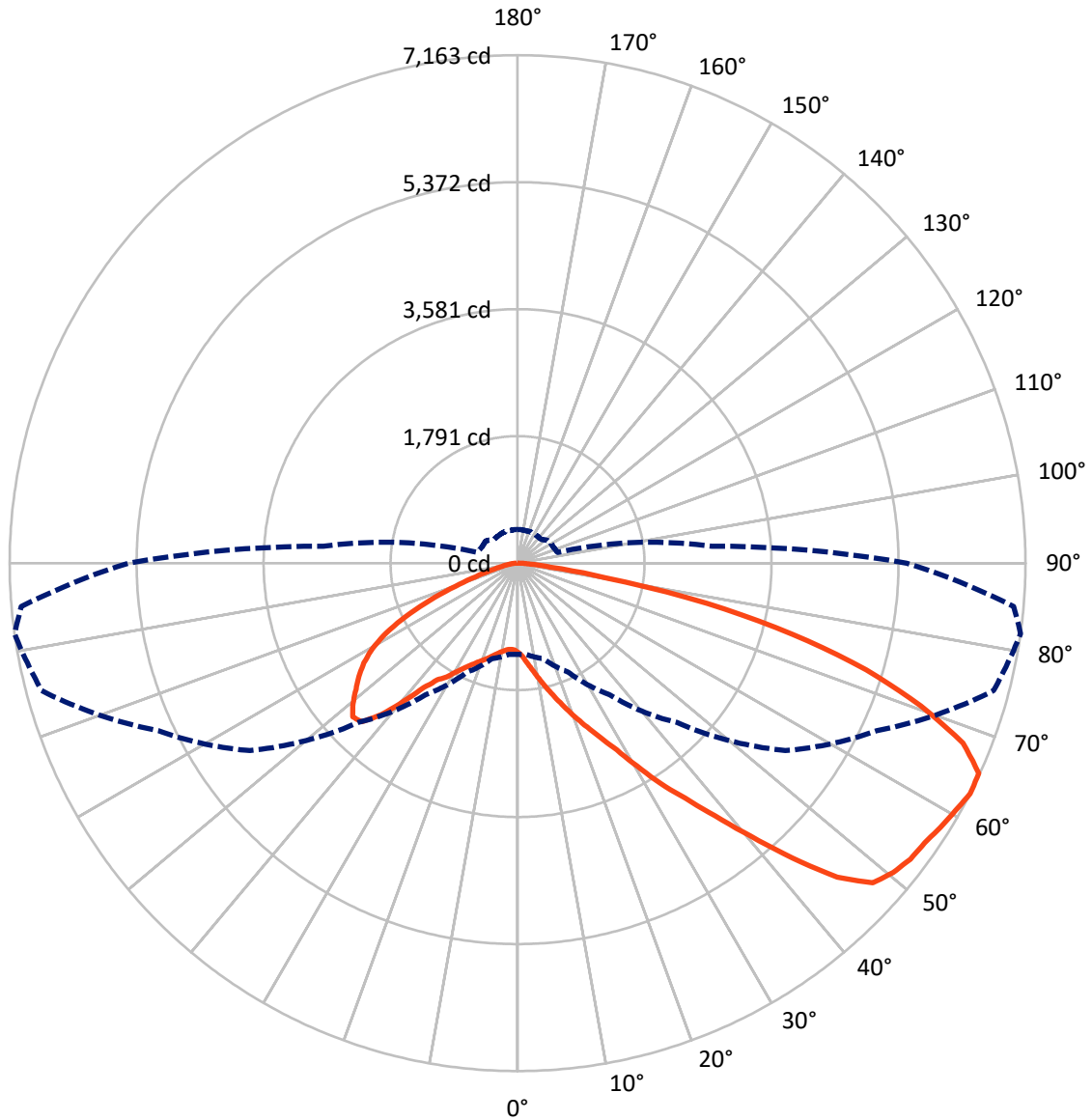
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 13.8 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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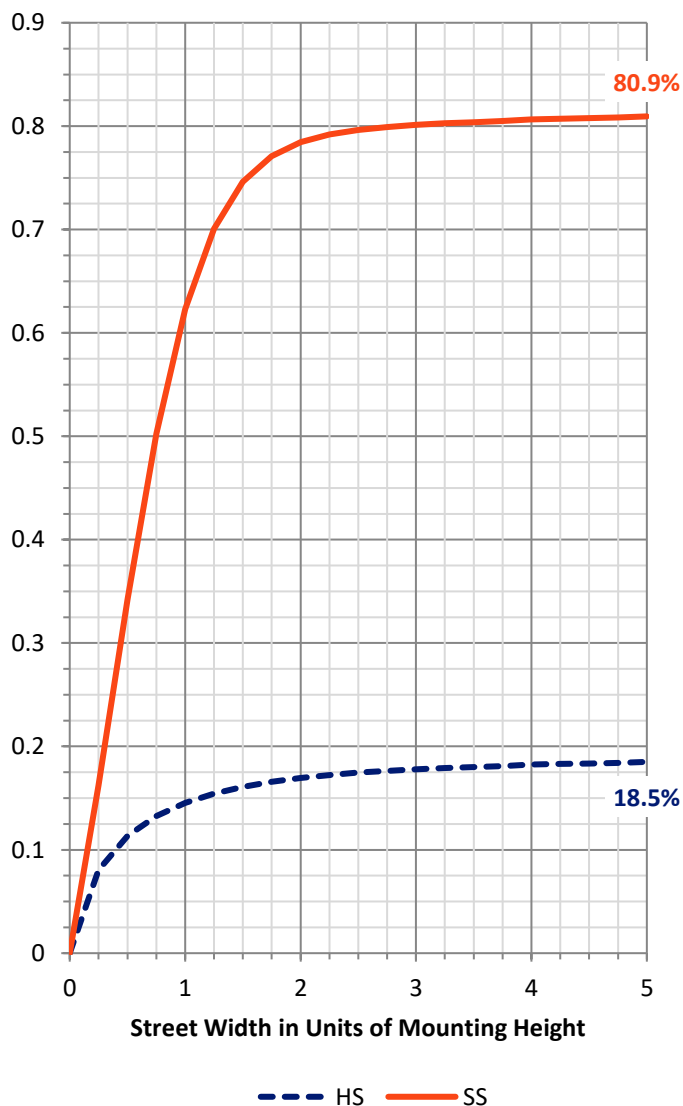
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2230.9	0.0	2230.9
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	9610.5	0.0	9610.5
	% Fixture	81.2	0.0	81.2
Total	Lumens	11841.4	0.0	11841.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	139.3	1.2
10°-20°	525.6	4.4
20°-30°	1088.4	9.2
30°-40°	1847.4	15.6
40°-50°	2515.7	21.2
50°-60°	2546.5	21.5
60°-70°	2006.9	16.9
70°-80°	988.6	8.3
80°-90°	182.9	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°	11841.4	100.0
0°-180°	11841.4	100.0



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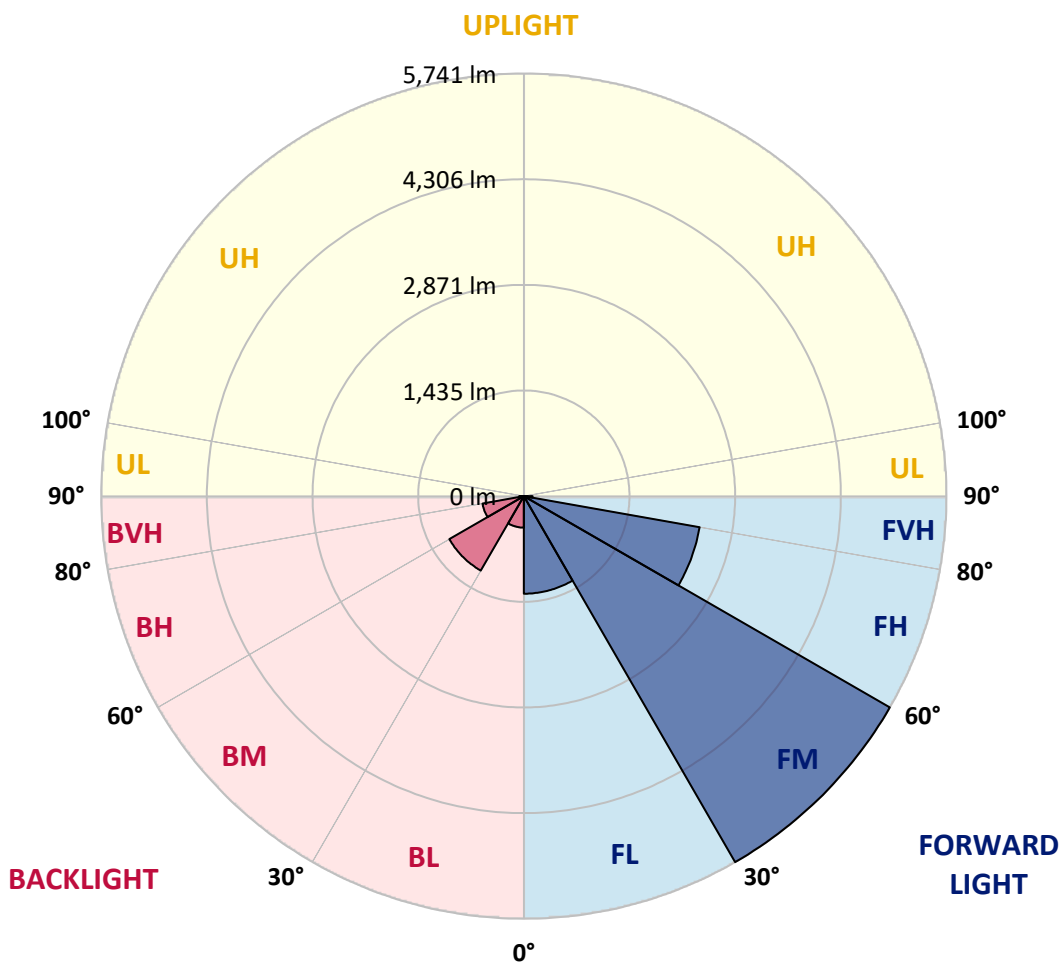
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1325.3	11.2			
FM (30°-60°)	5741.1	48.5			
FH (60°-80°)	2425.3	20.5			G2/5000
FVH (80°-90°)	118.8	1.0			G2/225
BL (0°-30°)	428.0	3.6	B1/500		
BM (30°-60°)	1168.5	9.9	B2/2500		
BH (60°-80°)	570.3	4.8	B2/1000		G2/1000
BVH (80°-90°)	64.1	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°	85°
0°	1259.3	1259.3	1259.3	1259.3	1259.3	1259.3	1259.3	1259.3	1259.3	1259.3	1259.3
2.5°	1677.0	1651.4	1637.8	1622.5	1579.8	1552.5	1501.4	1441.7	1372.6	1313.8	1302.7
5°	2030.8	2005.3	2008.7	1971.2	1908.9	1850.9	1755.5	1642.9	1511.6	1411.0	1376.1
7.5°	2280.6	2252.5	2259.3	2244.0	2193.7	2129.7	2008.7	1863.7	1671.9	1522.7	1466.4
10°	2447.7	2451.2	2456.3	2450.3	2417.9	2372.7	2252.5	2092.2	1853.5	1654.8	1578.1
12.5°	2637.0	2646.4	2644.7	2647.2	2630.2	2594.4	2476.7	2325.8	2047.0	1797.2	1697.5
15°	2878.3	2868.9	2876.6	2887.7	2868.9	2829.7	2725.7	2546.6	2249.9	1955.8	1832.2
17.5°	3142.6	3123.0	3143.4	3132.4	3118.7	3093.1	2978.9	2787.9	2459.7	2127.2	1982.2
20°	3371.1	3358.3	3369.4	3371.1	3373.6	3368.5	3250.9	3048.0	2679.6	2313.9	2144.2
22.5°	3627.7	3621.7	3620.0	3620.9	3623.4	3629.4	3549.3	3332.7	2923.5	2510.0	2319.0
25°	3986.6	3980.7	3941.5	3898.0	3872.4	3891.2	3849.4	3655.8	3192.9	2729.9	2510.8
27.5°	4389.1	4379.7	4327.7	4217.7	4135.8	4149.5	4145.2	4012.2	3503.2	2982.3	2741.0
30°	4806.8	4783.8	4712.2	4557.9	4429.1	4405.3	4417.2	4372.9	3893.7	3317.4	3061.6
32.5°	5179.4	5136.8	5042.1	4886.1	4732.6	4663.6	4665.3	4684.9	4318.3	3707.8	3397.5
35°	5407.0	5378.9	5308.1	5150.4	4979.0	4933.0	4920.2	5018.3	4707.9	4069.3	3698.5
37.5°	5529.8	5502.5	5426.6	5299.6	5170.0	5151.3	5175.1	5326.9	5150.4	4520.4	4107.7
40°	5507.6	5478.6	5429.2	5340.5	5255.3	5269.8	5375.5	5609.9	5633.8	5060.0	4690.9
42.5°	5325.2	5294.5	5290.2	5284.3	5244.2	5308.1	5499.1	5817.1	6078.0	5683.3	5396.8
45°	5002.9	4984.2	5006.3	5108.6	5158.9	5282.6	5557.1	5917.7	6468.5	6316.7	6064.4
47.5°	4594.5	4583.4	4633.7	4795.7	4958.6	5204.1	5595.5	5945.0	6737.0	6737.0	6501.7
50°	4137.5	4133.3	4199.8	4435.1	4690.0	5060.0	5591.2	5970.6	6854.7	6860.7	6656.1
52.5°	3499.8	3522.0	3699.3	4009.7	4355.8	4834.1	5531.5	6042.2	6921.2	6934.8	6759.2
55°	2764.9	2786.2	3053.9	3471.7	3915.0	4559.6	5353.3	6020.9	6934.0	6964.7	6818.0
57.5°	2207.3	2211.6	2378.7	2874.9	3423.9	4208.3	5147.8	5879.4	6896.5	7030.3	6908.4
60°	1727.3	1741.0	1852.6	2245.7	2854.4	3755.6	4918.5	5739.5	6917.8	7092.6	6990.3
62.5°	1286.5	1289.9	1394.0	1698.3	2267.8	3178.4	4607.3	5590.3	6947.6	7162.5	7023.5
65°	838.1	837.2	937.8	1212.4	1694.1	2555.2	4118.8	5356.7	6950.2	7147.1	6870.9
67.5°	532.9	536.3	579.8	752.8	1133.9	1928.5	3453.8	4922.8	6829.1	6775.4	6315.0
70°	432.3	433.1	446.7	491.9	690.6	1318.1	2596.1	4244.1	6446.3	6034.5	5488.9
72.5°	385.4	386.2	393.0	398.2	460.4	792.0	1703.4	3446.1	5766.0	5143.6	4553.6
75°	346.1	346.1	350.4	345.3	377.7	497.1	966.8	2591.0	4748.8	4005.4	3440.1
77.5°	303.5	302.7	302.7	300.1	326.5	363.2	484.3	1808.3	3420.5	2731.7	2231.2
80°	257.5	255.8	258.3	256.6	282.2	275.4	282.2	1116.0	1854.4	1252.4	949.8
82.5°	200.4	200.4	208.0	209.7	232.8	199.5	198.6	529.4	704.2	468.1	350.4
85°	104.9	117.7	158.6	165.4	175.6	125.3	145.8	247.2	282.2	179.0	127.9
87.5°	31.5	33.3	97.2	109.1	108.3	63.1	89.5	119.4	132.1	79.3	52.0
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°	1259.3	1259.3	1259.3	1259.3	1259.3	1259.3	1259.3	1259.3	1259.3	1259.3	1259.3
2.5°	1274.6	1244.8	1181.7	1125.4	1082.8	1041.8	1013.7	999.2	980.5	983.0	977.1
5°	1313.8	1252.4	1140.7	1050.4	989.8	943.8	915.7	901.2	887.5	880.7	885.8
7.5°	1372.6	1277.2	1121.1	1012.0	948.9	909.7	894.4	890.1	886.7	884.1	888.4
10°	1448.5	1320.6	1117.7	998.4	940.4	916.5	910.6	908.0	904.6	901.2	903.7
12.5°	1526.1	1368.4	1129.7	1001.8	954.0	936.1	928.5	925.0	916.5	912.3	913.1
15°	1623.3	1426.4	1145.9	1015.4	971.9	948.9	938.7	929.3	915.7	909.7	912.3
17.5°	1727.3	1495.4	1168.0	1028.2	978.8	950.6	930.2	916.5	902.9	894.4	895.2
20°	1845.0	1563.6	1187.6	1032.5	975.3	936.1	911.4	895.2	877.3	867.9	865.4
22.5°	1966.9	1635.2	1203.0	1029.1	956.6	911.4	883.3	863.7	842.3	827.9	828.7
25°	2115.2	1732.4	1215.8	1017.1	931.9	879.0	847.5	822.7	800.6	786.9	787.8
27.5°	2293.4	1842.4	1231.1	998.4	902.0	844.0	807.4	782.7	761.3	748.6	746.9
30°	2531.3	1985.6	1248.2	975.3	864.5	805.7	769.9	744.3	723.8	711.9	711.9
32.5°	2799.0	2160.4	1260.1	948.1	822.7	764.8	732.4	711.9	696.6	680.4	678.6
35°	3031.8	2296.0	1296.8	926.7	786.1	726.4	704.2	689.7	666.7	651.4	648.8
37.5°	3373.6	2534.7	1405.0	920.8	741.7	696.6	692.3	665.0	638.6	609.6	607.0
40°	3924.4	2948.2	1531.2	891.8	695.7	680.4	676.1	639.4	577.2	559.3	555.9
42.5°	4625.2	3446.1	1544.9	807.4	663.3	666.7	653.9	582.3	555.0	541.4	538.0
45°	5257.8	3850.2	1467.3	721.3	639.4	646.3	619.8	561.0	545.6	532.9	529.4
47.5°	5613.4	3974.7	1320.6	656.5	621.5	628.3	565.3	550.8	535.4	522.6	519.2
50°	5713.1	3866.4	1150.1	619.0	607.9	610.4	550.8	542.2	528.6	518.4	513.3
52.5°	5732.7	3704.4	992.4	596.8	597.7	574.6	538.0	531.2	522.6	506.4	500.5
55°	5741.2	3558.6	850.9	583.2	590.8	528.6	524.3	519.2	512.4	495.3	491.9
57.5°	5763.4	3371.9	740.0	572.9	582.3	507.3	509.0	505.6	497.1	489.4	487.7
60°	5700.3	3113.6	654.8	562.7	570.4	489.4	491.1	492.8	485.1	483.4	482.6
62.5°	5488.9	2747.0	582.3	549.1	545.6	471.5	471.5	478.3	471.5	474.0	474.0
65°	5053.2	2279.8	517.5	523.5	507.3	451.9	451.0	462.9	452.7	463.8	464.7
67.5°	4310.6	1725.6	451.0	483.4	467.2	431.4	434.8	444.2	430.6	453.6	453.6
70°	3412.0	1174.0	382.0	427.1	426.3	408.4	419.5	418.6	403.3	437.4	431.4
72.5°	2541.5	753.7	311.2	358.1	372.6	383.7	404.1	386.2	371.7	391.3	373.4
75°	1775.9	472.3	245.5	283.1	310.3	356.4	385.4	349.6	328.2	322.3	317.2
77.5°	1063.2	301.8	193.5	215.7	242.1	324.0	361.5	311.2	278.8	275.4	265.2
80°	490.2	196.9	147.5	161.1	172.2	277.9	329.1	266.0	226.8	223.4	211.4
82.5°	221.7	129.6	110.0	115.1	116.0	220.8	277.9	210.6	173.1	280.5	243.0
85°	103.2	83.6	71.6	68.2	69.1	147.5	202.1	144.9	196.9	153.5	116.8
87.5°	44.3	42.6	36.7	29.0	26.4	31.5	77.6	60.5	86.1	34.1	23.0
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)