

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: P674634

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

Issue Date: 04/16/2023



Test Information

Test Method: LM-79-08
Report Number: P674634
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-HSS
Description: INVUE CLEAR CURVE POLE MOUNT Light Square Luminaire @1050mA w/ T2R distribution lens and House Side Shield
Light Source: (32) 4000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

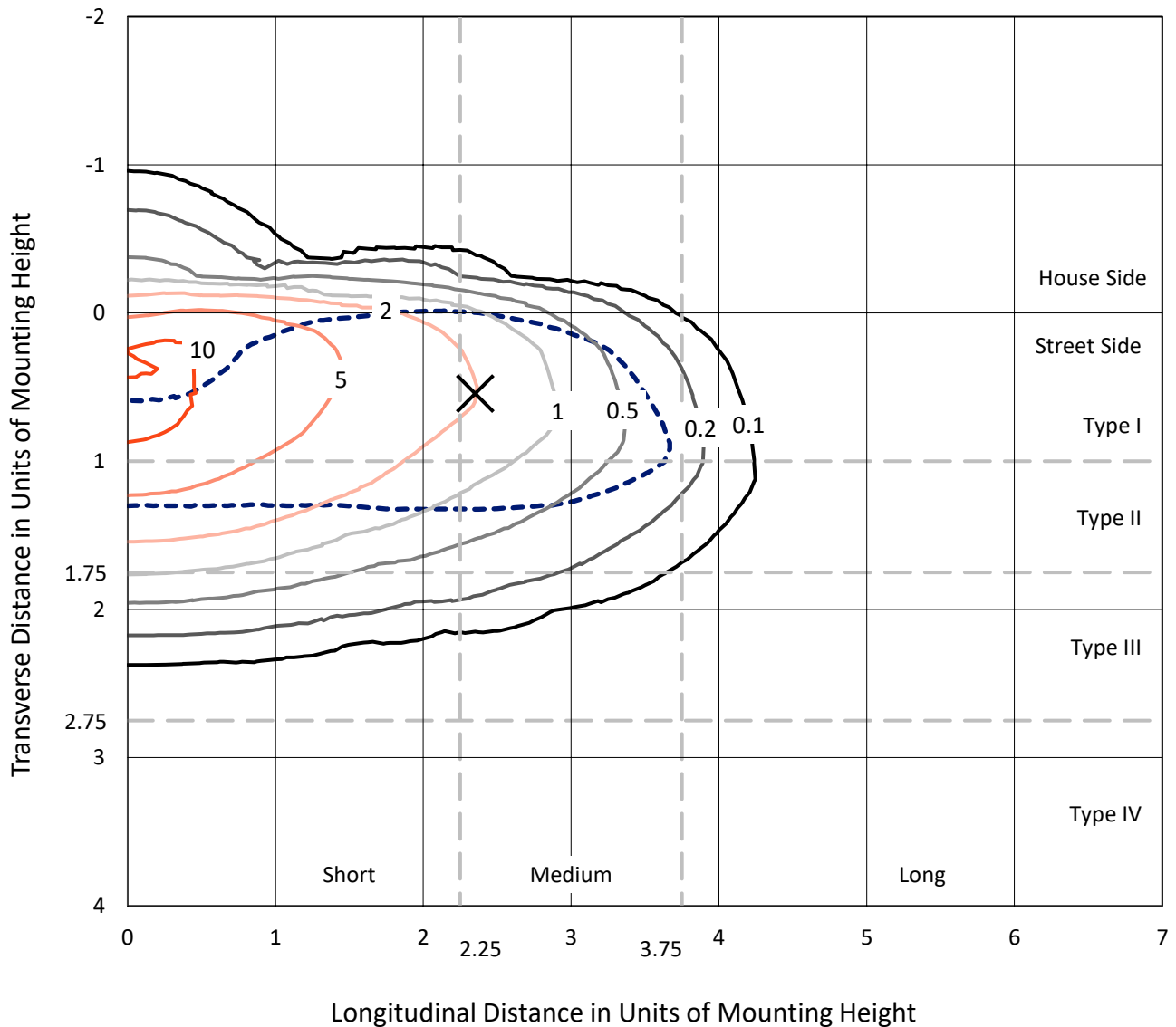
Lumens per Lamp: N/A
Luminaire Lumens: 9439.2 lumens
Efficiency: N/A
Efficacy: 88.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G2

Input Watts (W): 106.6
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

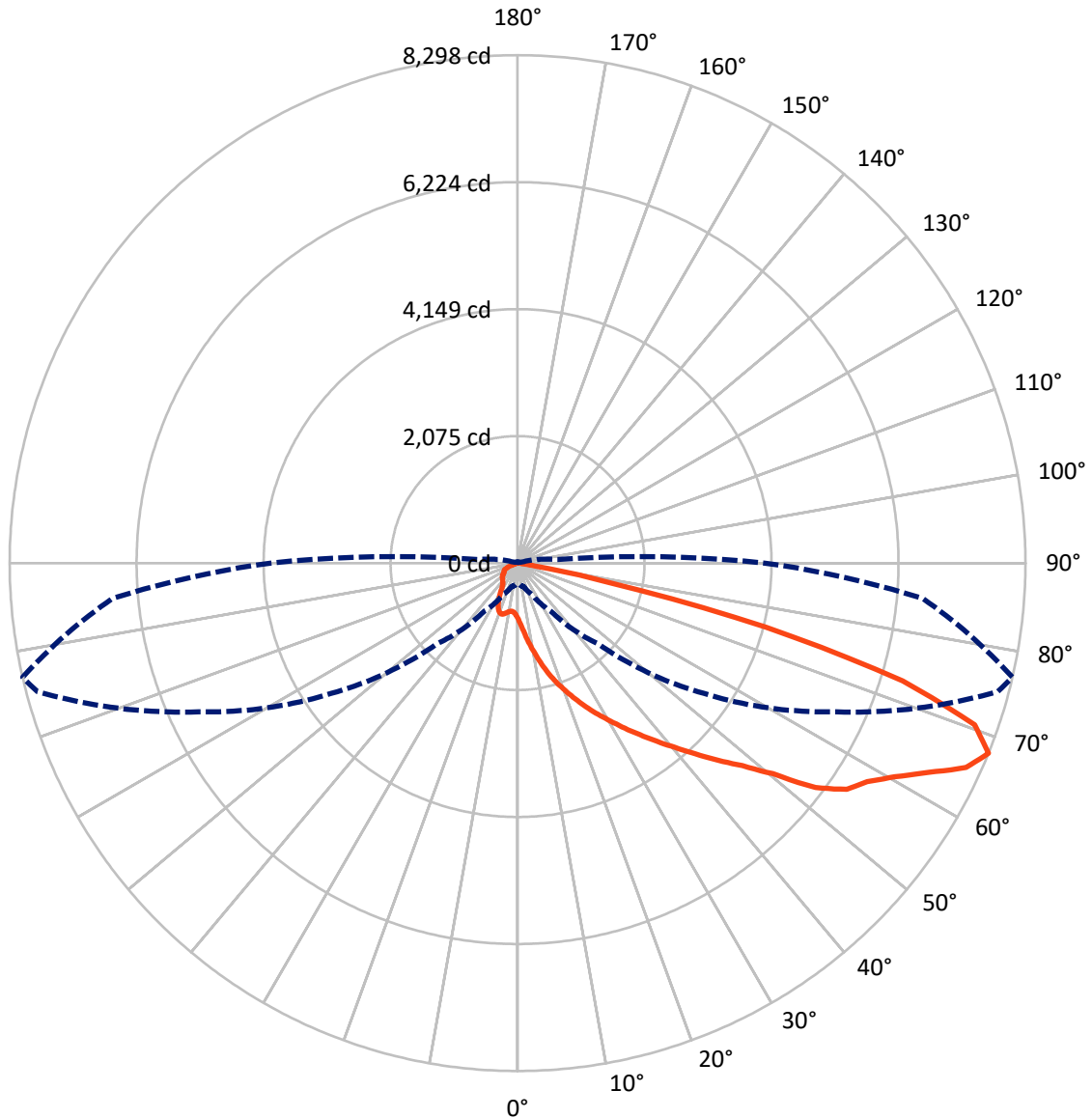
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 11.7 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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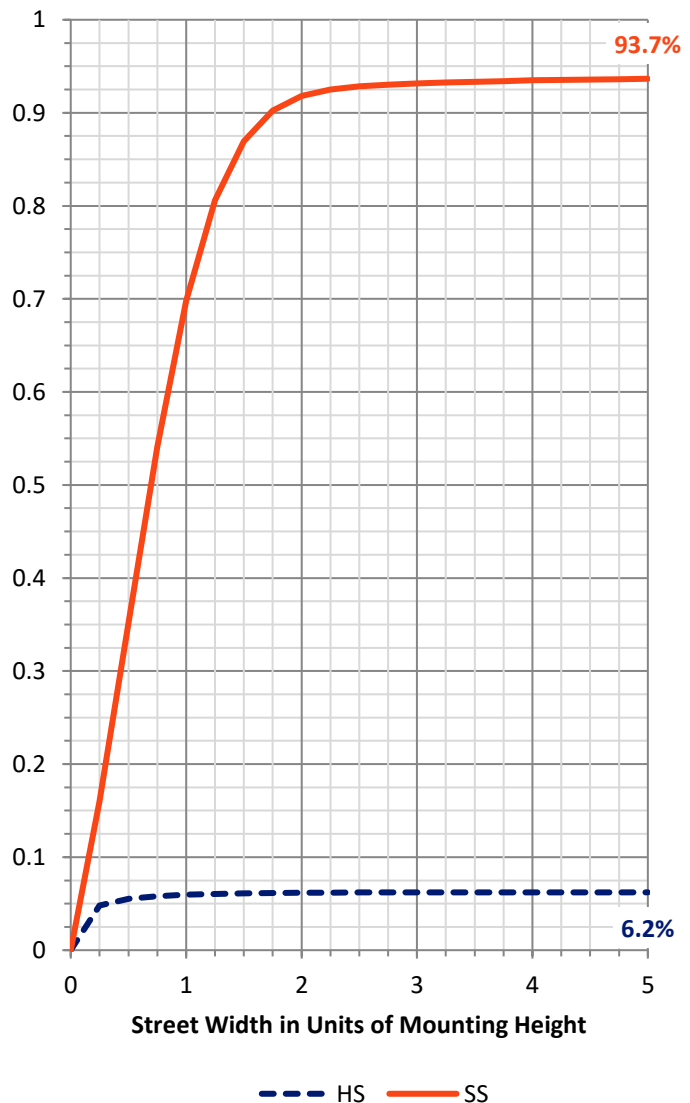
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	589.9	0.0	589.9
	% Fixture	6.2	0.0	6.2
Street Side	Lumens	8849.4	0.0	8849.4
	% Fixture	93.8	0.0	93.8
Total	Lumens	9439.2	0.0	9439.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	106.3	1.1
10°-20°	392.9	4.2
20°-30°	767.7	8.1
30°-40°	1342.1	14.2
40°-50°	1957.4	20.7
50°-60°	2288.8	24.2
60°-70°	1855.4	19.7
70°-80°	697.0	7.4
80°-90°	31.7	0.3
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°	9439.2	100.0
0°-180°	9439.2	100.0



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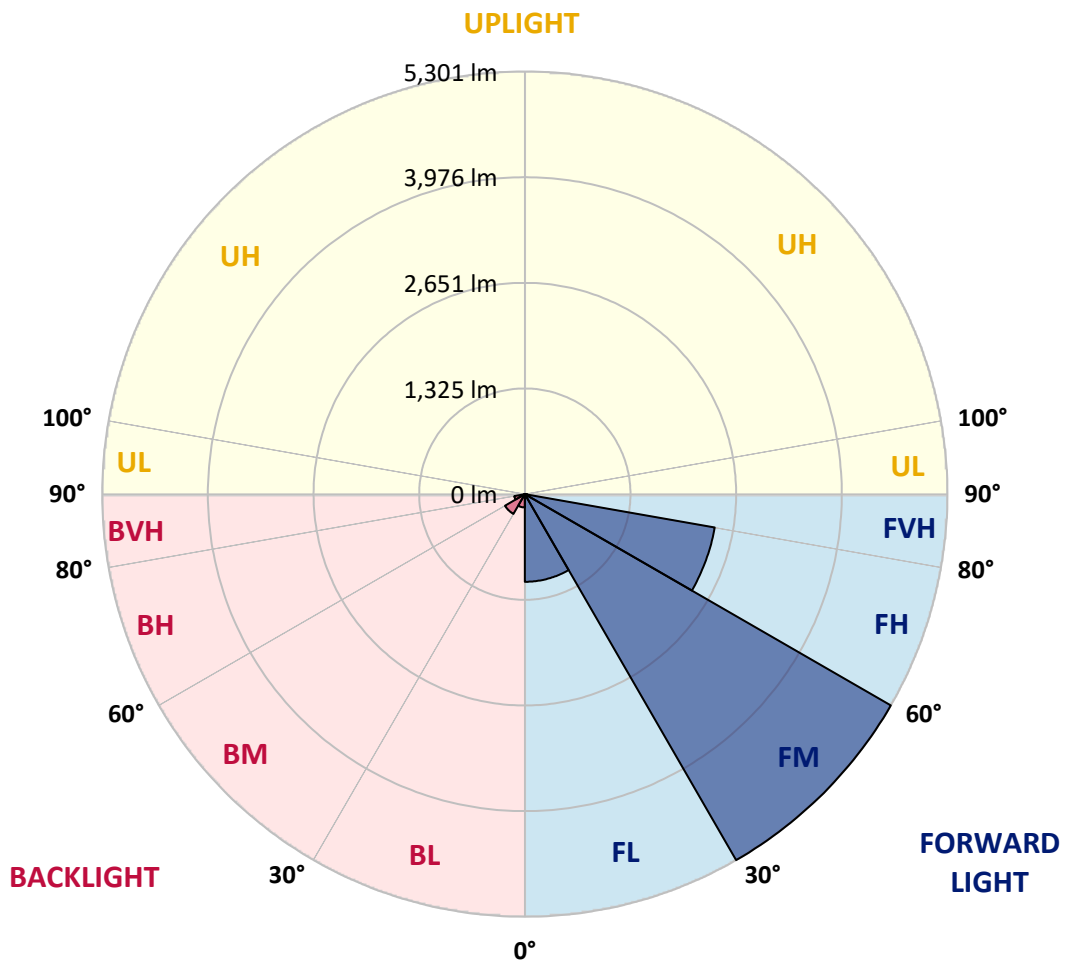
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1099.6	11.6			
FM (30°-60°)	5301.3	56.2			
FH (60°-80°)	2418.6	25.6			G2/5000
FVH (80°-90°)	29.9	0.3			G1/100
BL (0°-30°)	167.3	1.8	B1/500		
BM (30°-60°)	287.0	3.0	B1/1000		
BH (60°-80°)	133.8	1.4	B1/500		G1/500
BVH (80°-90°)	1.8	0.0			G0/10
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 Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	904.1	904.1	904.1	904.1	904.1	904.1	904.1	904.1	904.1	904.1	904.1
2.5°	1357.4	1308.0	1317.4	1296.9	1270.5	1209.2	1144.4	1079.6	1021.7	1008.9	951.0
5°	1738.3	1723.0	1706.8	1693.2	1637.8	1561.1	1444.3	1296.1	1162.3	1139.3	1019.1
7.5°	2034.0	2011.0	2025.5	1983.7	1925.8	1851.7	1703.4	1544.9	1338.7	1304.6	1118.0
10°	2252.2	2239.4	2246.2	2226.6	2198.5	2124.3	1977.8	1779.2	1540.6	1475.9	1228.8
12.5°	2415.8	2418.3	2448.1	2449.8	2426.8	2366.3	2211.3	2004.2	1723.8	1665.9	1351.5
15°	2535.1	2537.6	2574.3	2613.5	2639.9	2608.3	2467.7	2236.0	1939.4	1860.2	1480.1
17.5°	2554.7	2556.4	2621.1	2700.4	2782.2	2809.4	2701.2	2466.0	2136.3	2045.9	1627.6
20°	2567.4	2581.9	2639.9	2731.0	2860.6	2944.9	2886.1	2686.7	2327.1	2222.3	1772.4
22.5°	2722.5	2722.5	2756.6	2821.4	2924.5	3056.6	3044.6	2889.5	2512.9	2408.9	1916.4
25°	3051.4	3051.4	3018.2	3001.2	3056.6	3160.5	3190.3	3106.0	2725.1	2602.4	2068.1
27.5°	3486.9	3486.9	3434.9	3309.6	3261.9	3305.4	3336.9	3294.3	2921.1	2800.1	2228.3
30°	3938.5	3953.8	3863.5	3704.2	3537.2	3503.9	3473.2	3463.9	3129.8	2993.5	2391.1
32.5°	4391.8	4390.1	4277.6	4079.1	3861.0	3743.4	3643.7	3632.6	3351.4	3217.6	2545.3
35°	4754.0	4754.8	4636.4	4432.7	4180.5	4030.5	3870.3	3818.4	3594.2	3445.1	2729.3
37.5°	5067.6	5049.7	4921.9	4728.4	4493.2	4338.1	4138.8	4003.3	3845.6	3693.9	2913.4
40°	5247.4	5223.5	5099.1	4915.0	4736.9	4618.5	4443.0	4226.5	4121.7	3958.1	3123.0
42.5°	5273.8	5253.3	5170.7	5059.9	4914.2	4810.2	4763.4	4478.7	4411.4	4263.2	3373.5
45°	5199.6	5166.4	5139.1	5081.2	5040.3	4990.0	5053.9	4747.2	4743.8	4596.3	3621.5
47.5°	5015.6	4970.4	4977.2	5041.1	5087.2	5132.3	5331.7	5099.1	5078.6	4940.6	3947.0
50°	4701.2	4679.0	4754.0	4880.1	5062.5	5243.1	5608.7	5458.7	5539.6	5410.1	4396.1
52.5°	4062.1	4089.3	4313.4	4616.8	4932.1	5295.1	5868.6	5995.5	6202.6	6096.1	4847.7
55°	3295.2	3284.9	3584.0	4122.6	4626.2	5261.8	5981.9	6311.7	6637.2	6525.5	5099.1
57.5°	2654.4	2672.3	2874.2	3406.8	4107.2	5005.4	6008.3	6477.0	6811.9	6737.7	5331.7
60°	1992.3	2009.3	2193.4	2656.9	3417.0	4470.2	5790.2	6534.9	7139.9	7083.7	5703.2
62.5°	1268.0	1290.1	1475.0	1925.8	2611.8	3638.6	5300.2	6474.4	7482.5	7529.3	6210.3
65°	623.8	643.4	779.7	1124.8	1746.0	2720.8	4616.8	6243.5	7918.8	8052.5	6616.7
67.5°	345.1	354.5	401.3	572.6	974.0	1866.1	3710.1	5750.1	8119.0	8298.0	6644.0
70°	268.4	271.0	288.9	334.0	474.6	1095.0	2639.0	4928.7	7704.0	7920.5	6091.0
72.5°	225.8	229.2	237.7	253.1	296.5	570.1	1658.2	3809.0	6482.1	6580.1	4712.2
75°	165.3	170.4	194.3	207.9	234.3	346.0	731.1	2288.8	4283.6	4187.3	2636.5
77.5°	138.9	143.2	149.1	168.7	193.4	236.0	256.5	959.5	1743.4	1515.9	691.9
80°	94.6	99.7	115.9	126.1	163.6	155.9	106.5	257.3	350.2	285.5	132.9
82.5°	67.3	71.6	80.1	103.1	118.4	82.7	57.9	78.4	84.4	80.1	43.5
85°	21.3	27.3	57.9	85.2	63.9	28.1	36.6	29.8	26.4	25.6	17.0
87.5°	4.3	4.3	29.0	34.1	25.6	14.5	12.8	9.4	11.9	11.9	9.4
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°	904.1	904.1	904.1	904.1	904.1	904.1	904.1	904.1	904.1	904.1	904.1
2.5°	923.7	885.4	830.0	778.0	725.2	687.7	661.2	634.8	624.6	620.3	609.3
5°	964.6	891.3	781.4	692.8	628.0	587.1	562.4	541.1	527.5	523.2	517.2
7.5°	1023.4	917.7	760.1	657.8	593.1	548.8	508.7	462.7	426.1	411.6	405.6
10°	1087.3	957.8	763.5	651.0	565.0	467.8	378.3	304.2	271.8	259.9	251.4
12.5°	1181.0	1002.1	778.0	643.4	480.6	334.0	242.0	211.3	203.7	202.0	200.2
15°	1274.8	1064.3	801.8	592.2	358.7	227.5	201.1	190.0	185.8	181.5	181.5
17.5°	1369.4	1123.9	811.2	492.5	248.0	196.8	183.2	173.8	167.0	163.6	161.1
20°	1475.9	1187.0	784.0	370.7	198.5	179.8	164.5	153.4	147.4	144.0	141.5
22.5°	1590.9	1249.2	724.3	258.2	180.6	161.9	147.4	136.3	130.4	127.0	126.1
25°	1699.1	1302.9	628.9	194.3	162.8	144.9	131.2	121.9	117.6	114.2	113.3
27.5°	1810.8	1348.9	504.5	171.3	148.3	131.2	117.6	109.9	105.7	103.1	102.3
30°	1919.8	1380.4	375.8	156.8	135.5	118.4	106.5	100.6	96.3	93.7	92.9
32.5°	2032.3	1398.3	253.9	144.0	122.7	107.4	97.1	91.2	88.6	86.1	86.1
35°	2140.5	1395.8	183.2	132.1	112.5	97.1	87.8	83.5	82.7	80.1	80.1
37.5°	2259.0	1377.9	155.9	121.0	101.4	87.8	80.1	77.5	76.7	75.0	74.1
40°	2393.6	1337.8	142.3	112.5	92.0	80.1	73.3	71.6	70.7	69.0	69.0
42.5°	2541.0	1285.9	134.6	103.1	84.4	72.4	67.3	64.8	63.9	62.2	62.2
45°	2712.3	1236.4	129.5	93.7	77.5	66.5	61.4	58.8	57.9	56.2	56.2
47.5°	2945.8	1208.3	121.0	85.2	69.9	60.5	55.4	53.7	52.0	50.3	50.3
50°	3267.0	1175.1	109.9	76.7	63.9	54.5	51.1	48.6	47.7	46.0	46.0
52.5°	3531.2	1104.3	98.8	68.2	57.1	50.3	46.9	45.2	43.5	42.6	42.6
55°	3624.1	1021.7	87.8	61.4	52.0	46.9	43.5	41.8	40.9	40.0	40.0
57.5°	3772.3	995.3	77.5	54.5	46.9	43.5	40.0	39.2	38.3	37.5	36.6
60°	4025.4	1010.6	68.2	48.6	42.6	39.2	36.6	35.8	34.1	32.4	32.4
62.5°	4270.8	991.9	57.9	42.6	36.6	34.9	32.4	30.7	27.3	24.7	23.0
65°	4330.5	866.6	50.3	35.8	30.7	29.0	26.4	23.0	17.9	14.5	14.5
67.5°	4041.6	658.7	43.5	30.7	25.6	23.9	18.7	15.3	11.1	8.5	8.5
70°	3335.2	417.5	35.8	23.9	21.3	16.2	11.9	11.1	7.7	6.8	6.0
72.5°	2406.4	228.4	29.8	19.6	15.3	10.2	8.5	6.8	5.1	3.4	3.4
75°	1218.5	107.4	22.2	15.3	10.2	6.8	5.1	3.4	3.4	2.6	2.6
77.5°	345.1	49.4	14.5	10.2	6.8	4.3	3.4	2.6	2.6	1.7	1.7
80°	68.2	24.7	9.4	6.8	5.1	3.4	2.6	1.7	1.7	0.9	0.9
82.5°	24.7	12.8	6.8	5.1	4.3	3.4	1.7	0.9	0.9	0.0	0.0
85°	12.8	6.8	5.1	4.3	3.4	2.6	1.7	0.9	0.0	0.0	0.0
87.5°	6.8	5.1	4.3	4.3	3.4	2.6	1.7	0.9	0.0	0.0	0.0
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)