

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: P674446

Luminaire Tested: **CCP-SA-2E-760-U-AFL-HSS**

Issue Date: 04/16/2023



Test Information

Test Method: LM-79-08
Report Number: P674446
Test Lab: INNOVATION CENTER(G2)
Issue Date: 04/16/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCP-SA-2E-760-U-AFL-HSS
Description: INVUE CLEAR CURVE POLE MOUNT Light Square Luminaire @1050mA w/ AFL distribution lens and House Side Shield
Light Source: (32) 5700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

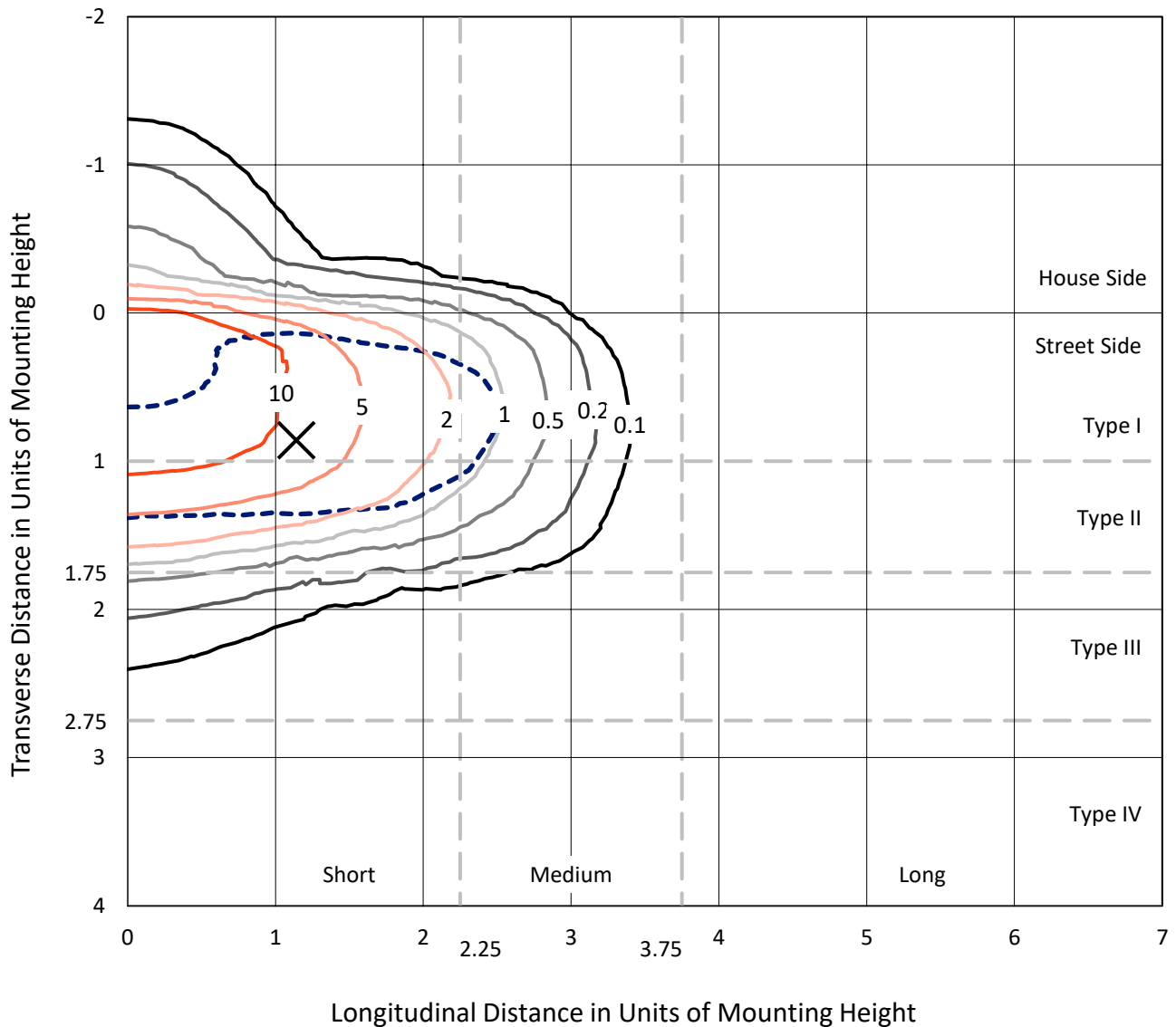
Lumens per Lamp: N/A
Luminaire Lumens: 11598.2 lumens
Efficiency: N/A
Efficacy: 108.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 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

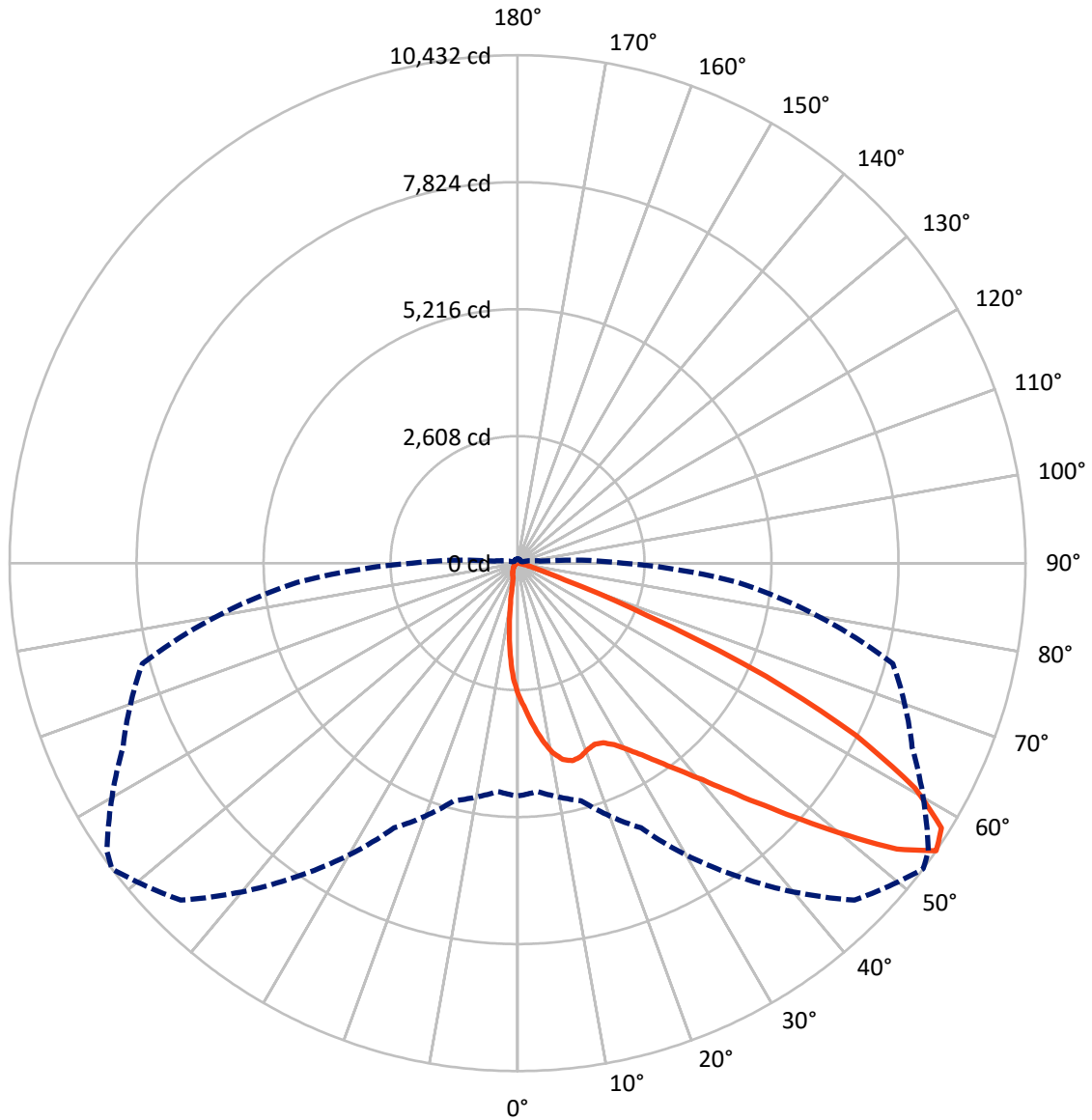
✕ Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 17.5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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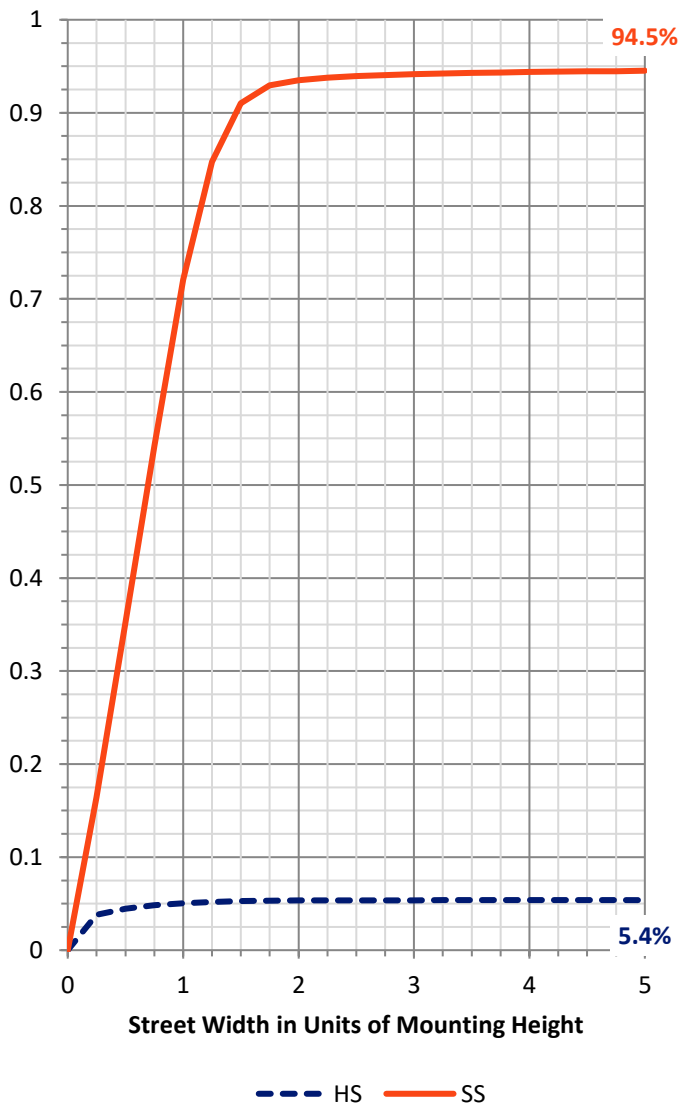
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	626.9	0.0	626.9
	% Fixture	5.4	0.0	5.4
Street Side	Lumens	10971.2	0.0	10971.2
	% Fixture	94.6	0.0	94.6
Total	Lumens	11598.2	0.0	11598.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	242.7	2.1
10°-20°	634.1	5.5
20°-30°	1061.3	9.2
30°-40°	1736.3	15.0
40°-50°	2791.0	24.1
50°-60°	3151.1	27.2
60°-70°	1680.8	14.5
70°-80°	276.2	2.4
80°-90°	24.7	0.2
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°	11598.2	100.0
0°-180°	11598.2	100.0



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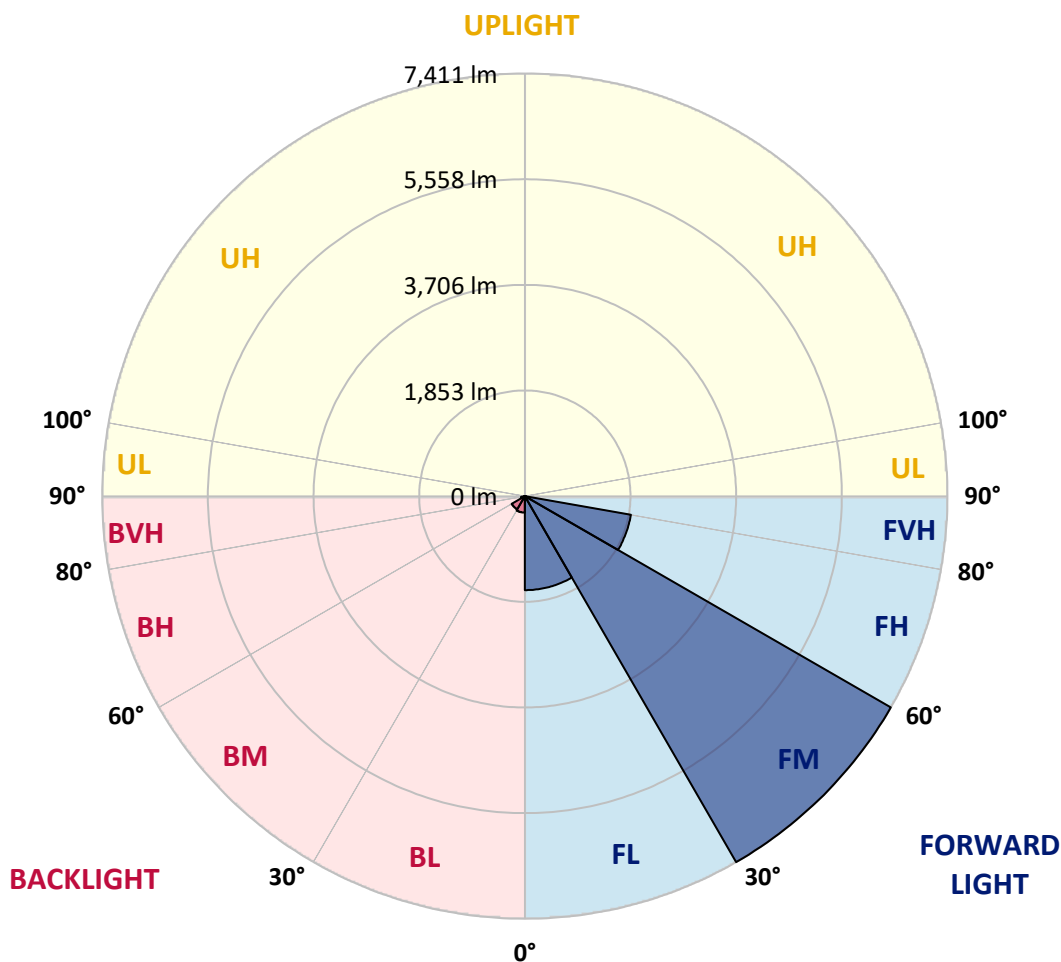
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1648.7	14.2			
FM (30°-60°)	7411.3	63.9			
FH (60°-80°)	1888.5	16.3			G2/5000
FVH (80°-90°)	22.7	0.2			G1/100
BL (0°-30°)	289.3	2.5	B1/500		
BM (30°-60°)	267.1	2.3	B1/1000		
BH (60°-80°)	68.5	0.6	B0/110		G0/110
BVH (80°-90°)	2.0	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 Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	2714.2	2714.2	2714.2	2714.2	2714.2	2714.2	2714.2	2714.2	2714.2	2714.2	2714.2
2.5°	3254.8	3235.5	3246.7	3217.2	3163.4	3096.3	2995.7	3000.8	2921.5	2852.4	2756.9
5°	3792.4	3772.1	3766.0	3690.8	3615.6	3494.7	3345.3	3320.9	3175.6	2999.8	2799.6
7.5°	4075.9	4058.7	4071.9	4044.4	3970.2	3860.5	3671.5	3653.2	3428.6	3162.4	2867.7
10°	3945.9	3939.8	3995.6	4060.7	4120.6	4107.4	3956.0	3927.6	3675.5	3341.2	2937.8
12.5°	3596.3	3615.6	3686.7	3806.6	3991.6	4165.4	4141.0	4146.0	3927.6	3535.3	3015.0
15°	3391.0	3414.4	3455.0	3517.0	3744.6	4053.6	4211.1	4261.9	4169.4	3751.8	3106.5
17.5°	3373.7	3393.0	3399.1	3422.5	3555.6	3873.7	4182.6	4279.2	4384.8	3956.0	3209.1
20°	3506.9	3515.0	3509.9	3492.6	3540.4	3776.2	4093.2	4231.4	4562.7	4173.5	3299.6
22.5°	3757.9	3745.7	3730.4	3666.4	3663.4	3803.6	4044.4	4188.7	4668.4	4353.3	3359.5
25°	4068.8	4043.4	4022.1	3931.6	3888.9	3946.9	4088.1	4204.0	4763.9	4528.1	3402.2
27.5°	4408.2	4416.3	4363.5	4241.6	4174.5	4162.3	4223.3	4309.6	4856.4	4684.6	3425.6
30°	4771.0	4775.1	4706.0	4580.0	4519.0	4440.7	4436.7	4488.5	4955.9	4864.5	3447.9
32.5°	5184.6	5195.8	5083.0	4951.9	4845.2	4743.6	4693.8	4737.5	5134.8	5099.2	3493.7
35°	5782.1	5733.3	5580.9	5382.7	5231.3	5098.2	5022.0	5050.4	5372.6	5380.7	3585.1
37.5°	6397.9	6392.8	6224.1	5938.6	5690.6	5525.0	5394.9	5441.7	5706.9	5757.7	3731.4
40°	6972.1	6985.3	6838.9	6590.0	6270.9	5986.4	5847.1	5878.6	6151.0	6215.0	3909.3
42.5°	7347.0	7339.9	7351.1	7280.0	6959.9	6624.5	6415.2	6432.5	6667.2	6700.7	4131.8
45°	7519.8	7492.3	7587.9	7813.5	7686.4	7333.8	7095.0	7073.7	7202.7	7193.6	4334.0
47.5°	7370.4	7319.6	7539.1	8082.8	8328.7	8222.0	7880.5	7841.9	7732.2	7659.0	4544.4
50°	6627.6	6605.2	7074.7	7954.7	8732.1	9043.0	8792.1	8648.8	8204.7	8002.5	4655.2
52.5°	5921.3	5859.3	6176.4	7301.3	8552.2	9703.6	9755.4	9500.3	8596.9	8101.0	4617.6
55°	4783.2	4707.0	5052.5	5998.6	7839.9	9787.9	10432.2	10299.1	8940.4	7979.1	4541.3
57.5°	2905.3	2830.1	3338.2	4296.4	6269.9	9086.7	10265.5	10400.7	9204.6	7845.0	4491.5
60°	1221.5	1173.7	1372.9	2050.7	4003.8	7468.0	9381.4	9718.8	9254.4	7661.0	4511.9
62.5°	635.1	613.8	625.0	821.1	1618.8	4917.3	7808.4	8395.7	8752.4	7579.7	4532.2
65°	476.6	460.3	424.8	451.2	629.0	2125.9	5611.4	6397.9	7664.1	7373.5	4395.0
67.5°	391.2	376.0	350.6	342.5	370.9	737.8	2864.6	3886.9	6005.7	6494.5	3903.2
70°	312.0	306.9	298.8	283.5	278.4	357.7	1027.4	1584.2	3971.3	4580.0	2829.1
72.5°	260.1	261.2	252.0	238.8	220.5	230.7	409.5	541.6	1921.6	2196.0	1184.9
75°	217.5	217.5	220.5	202.2	183.9	158.5	227.6	264.2	616.8	507.1	253.0
77.5°	170.7	172.8	186.0	170.7	147.3	99.6	124.0	141.3	182.9	146.3	92.5
80°	136.2	134.1	129.1	153.4	132.1	70.1	58.9	65.0	85.4	70.1	45.7
82.5°	95.5	94.5	90.4	103.7	102.6	51.8	38.6	39.6	51.8	44.7	28.5
85°	23.4	27.4	57.9	48.8	42.7	30.5	23.4	25.4	33.5	29.5	15.2
87.5°	10.2	10.2	26.4	31.5	20.3	13.2	10.2	11.2	17.3	17.3	9.1
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°	2714.2	2714.2	2714.2	2714.2	2714.2	2714.2	2714.2	2714.2	2714.2	2714.2	2714.2
2.5°	2723.4	2657.3	2574.0	2485.6	2395.2	2286.4	2217.3	2160.4	2115.7	2081.2	2069.0
5°	2733.5	2606.5	2417.5	2182.8	1944.0	1720.4	1547.7	1419.6	1313.9	1256.0	1230.6
7.5°	2732.5	2563.8	2222.4	1829.1	1441.0	1118.8	890.2	748.9	654.4	615.8	592.4
10°	2731.5	2507.9	1999.9	1436.9	963.3	648.3	477.6	398.3	363.8	350.6	348.6
12.5°	2761.0	2443.9	1750.9	1057.9	604.6	403.4	332.3	314.0	305.9	301.8	300.8
15°	2777.2	2385.0	1488.7	746.9	407.5	319.1	296.7	288.6	285.5	283.5	282.5
17.5°	2794.5	2293.5	1239.7	540.6	326.2	289.6	276.4	271.3	269.3	269.3	269.3
20°	2797.6	2195.0	992.8	398.3	289.6	270.3	257.1	252.0	249.0	246.9	246.9
22.5°	2775.2	2078.1	780.4	323.1	268.3	252.0	237.8	229.7	224.6	223.6	223.6
25°	2719.3	1912.5	598.5	283.5	251.0	233.7	216.4	207.3	203.2	203.2	203.2
27.5°	2639.0	1717.4	462.4	252.0	228.6	211.4	196.1	188.0	187.0	186.0	187.0
30°	2547.6	1529.4	353.6	223.6	202.2	188.0	175.8	171.7	173.8	173.8	174.8
32.5°	2456.1	1341.4	276.4	201.2	178.8	166.7	160.6	160.6	163.6	163.6	163.6
35°	2377.9	1157.4	231.7	182.9	162.6	152.4	149.4	152.4	154.5	155.5	155.5
37.5°	2334.2	998.9	204.3	166.7	149.4	141.3	140.2	143.3	147.3	150.4	151.4
40°	2317.9	877.0	188.0	154.5	137.2	132.1	131.1	135.2	142.3	147.3	148.4
42.5°	2318.9	769.3	173.8	142.3	129.1	121.9	121.9	128.0	135.2	140.2	140.2
45°	2326.1	676.8	159.5	130.1	121.9	109.7	110.8	118.9	124.0	129.1	129.1
47.5°	2332.1	602.6	144.3	116.9	105.7	99.6	101.6	107.7	114.8	123.0	123.0
50°	2296.6	549.8	129.1	102.6	92.5	90.4	94.5	99.6	109.7	117.9	118.9
52.5°	2211.2	502.0	115.8	91.5	83.3	84.3	89.4	92.5	100.6	101.6	102.6
55°	2173.6	477.6	105.7	83.3	76.2	79.3	82.3	83.3	81.3	76.2	76.2
57.5°	2165.5	461.3	95.5	75.2	70.1	74.2	73.2	67.1	61.0	54.9	53.9
60°	2173.6	439.0	87.4	65.0	64.0	65.0	62.0	50.8	42.7	38.6	36.6
62.5°	2126.9	406.5	80.3	55.9	55.9	54.9	46.7	34.6	27.4	24.4	23.4
65°	1972.4	342.5	73.2	46.7	45.7	43.7	31.5	23.4	18.3	15.2	14.2
67.5°	1668.6	265.2	66.1	38.6	36.6	30.5	20.3	15.2	10.2	9.1	8.1
70°	1138.1	164.6	55.9	30.5	27.4	19.3	12.2	9.1	6.1	5.1	4.1
72.5°	412.6	95.5	46.7	23.4	18.3	12.2	7.1	4.1	3.0	3.0	2.0
75°	97.6	67.1	35.6	17.3	12.2	7.1	4.1	3.0	2.0	2.0	1.0
77.5°	44.7	51.8	23.4	10.2	8.1	5.1	3.0	2.0	1.0	1.0	0.0
80°	25.4	36.6	11.2	7.1	6.1	4.1	2.0	1.0	1.0	0.0	0.0
82.5°	13.2	20.3	8.1	6.1	5.1	3.0	2.0	0.0	0.0	0.0	0.0
85°	9.1	10.2	6.1	5.1	4.1	3.0	2.0	0.0	0.0	0.0	0.0
87.5°	7.1	7.1	6.1	5.1	4.1	3.0	1.0	0.0	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)