

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: P674424

Luminaire Tested: **CCP-SA-2E-740-U-AFL-HSS**

Issue Date: 04/16/2023



Test Information

Test Method: LM-79-08
Report Number: P674424
Test Lab: INNOVATION CENTER(G2)
Issue Date: 04/16/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCP-SA-2E-740-U-AFL-HSS
Description: INVUE CLEAR CURVE POLE MOUNT Light Square Luminaire @1050mA w/ AFL distribution lens and House Side Shield
Light Source: (32) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

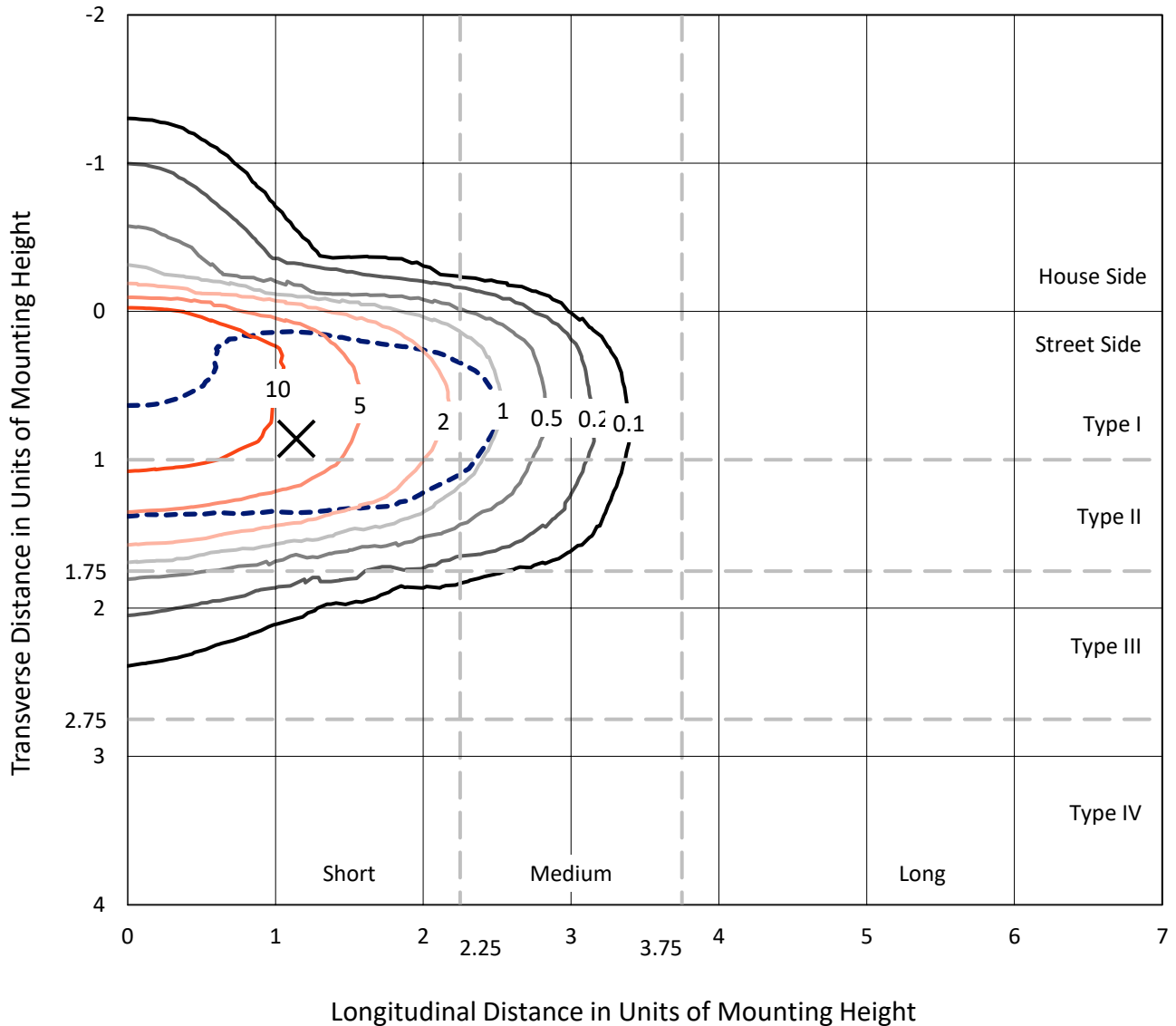
Lumens per Lamp: N/A
Luminaire Lumens: 11338.5 lumens
Efficiency: N/A
Efficacy: 106.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

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

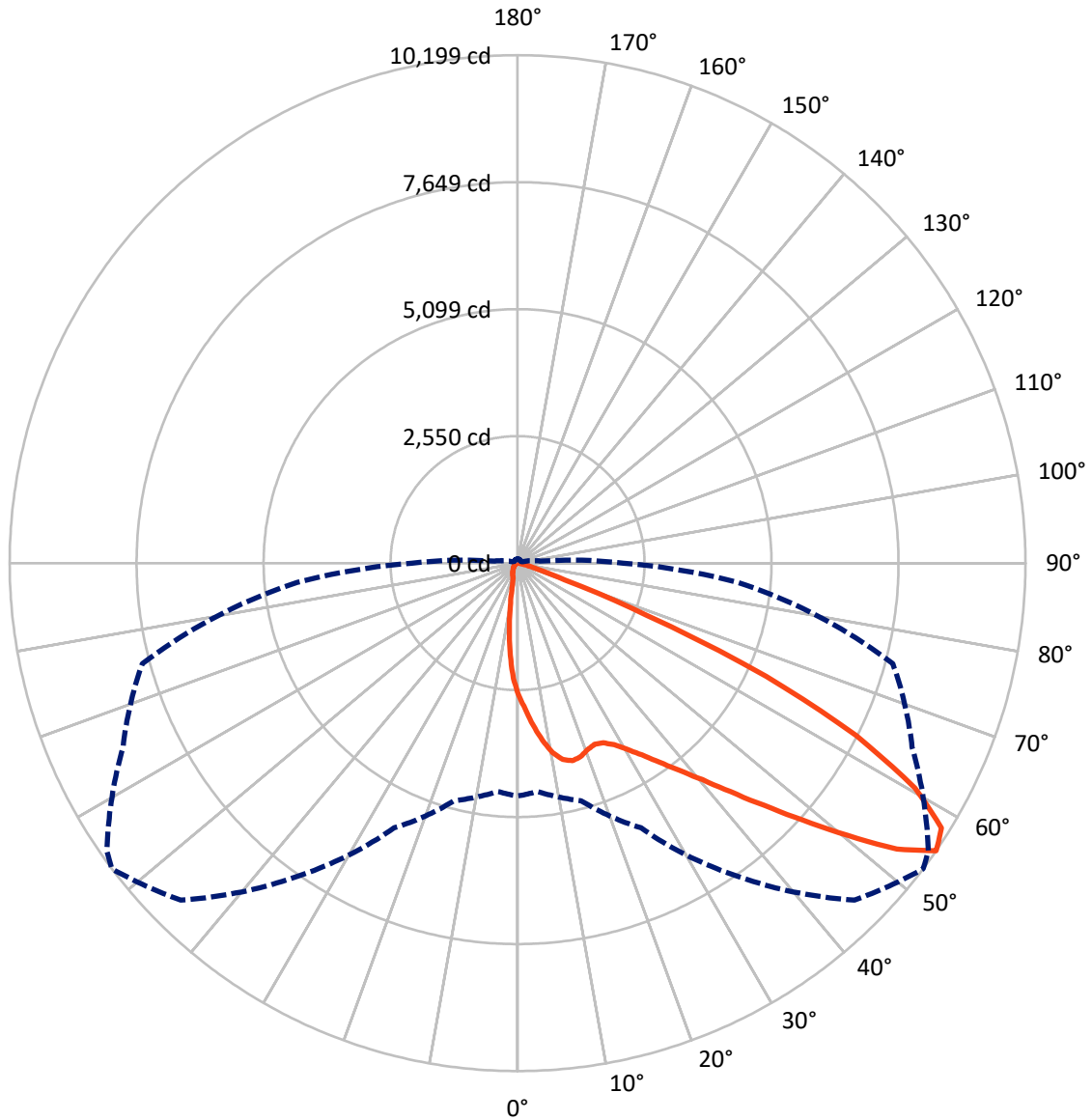
✕ Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 17.1 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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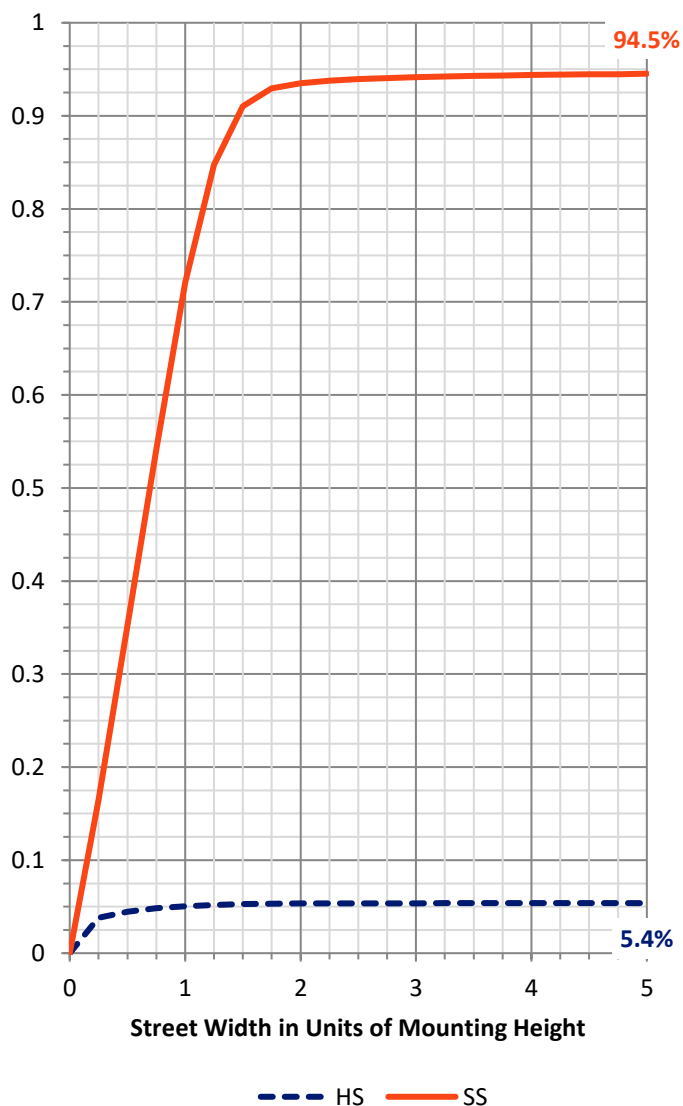
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	612.9	0.0	612.9
	% Fixture	5.4	0.0	5.4
Street Side	Lumens	10725.6	0.0	10725.6
	% Fixture	94.6	0.0	94.6
Total	Lumens	11338.5	0.0	11338.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	237.2	2.1
10°-20°	619.9	5.5
20°-30°	1037.5	9.2
30°-40°	1697.4	15.0
40°-50°	2728.5	24.1
50°-60°	3080.6	27.2
60°-70°	1643.2	14.5
70°-80°	270.0	2.4
80°-90°	24.2	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°	11338.5	100.0
0°-180°	11338.5	100.0



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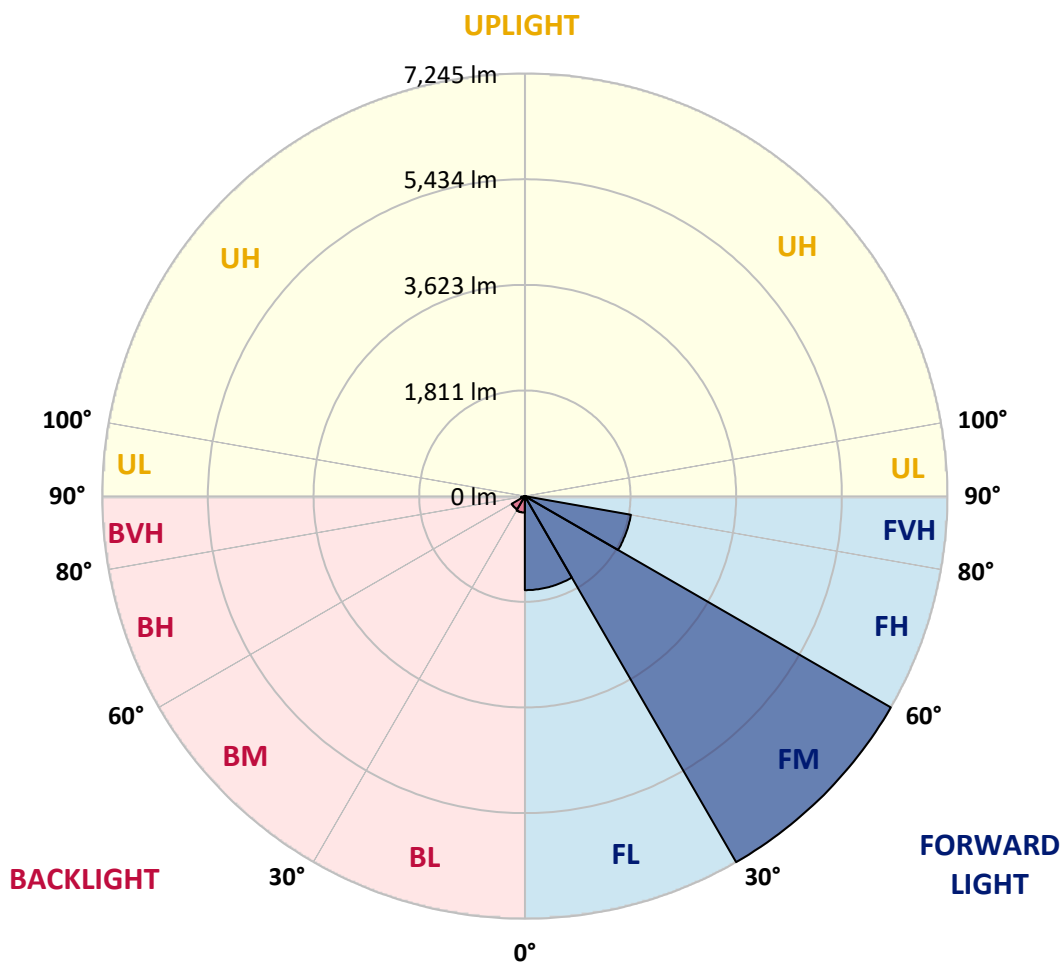
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1611.8	14.2			
FM (30°-60°)	7245.4	63.9			
FH (60°-80°)	1846.2	16.3			G2/5000
FVH (80°-90°)	22.2	0.2			G1/100
BL (0°-30°)	282.8	2.5	B1/500		
BM (30°-60°)	261.1	2.3	B1/1000		
BH (60°-80°)	67.0	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°	2653.5	2653.5	2653.5	2653.5	2653.5	2653.5	2653.5	2653.5	2653.5	2653.5	2653.5
2.5°	3182.0	3163.1	3174.0	3145.2	3092.6	3027.0	2928.7	2933.6	2856.1	2788.6	2695.2
5°	3707.5	3687.6	3681.7	3608.2	3534.7	3416.4	3270.4	3246.6	3104.5	2932.6	2736.9
7.5°	3984.7	3967.8	3980.7	3953.9	3881.4	3774.1	3589.3	3571.4	3351.9	3091.6	2803.5
10°	3857.5	3851.6	3906.2	3969.8	4028.4	4015.5	3867.5	3839.6	3593.3	3266.4	2872.0
12.5°	3515.8	3534.7	3604.2	3721.4	3902.2	4072.1	4048.3	4053.2	3839.6	3456.2	2947.5
15°	3315.1	3337.9	3377.7	3438.3	3660.8	3962.8	4116.8	4166.5	4076.1	3667.8	3036.9
17.5°	3298.2	3317.1	3323.0	3345.9	3476.0	3787.0	4089.0	4183.4	4286.7	3867.5	3137.3
20°	3428.4	3436.3	3431.3	3414.4	3461.1	3691.6	4001.6	4136.7	4460.5	4080.0	3225.7
22.5°	3673.7	3661.8	3646.9	3584.3	3581.3	3718.4	3953.9	4094.9	4563.9	4255.9	3284.3
25°	3977.7	3952.9	3932.0	3843.6	3801.9	3858.5	3996.6	4109.9	4657.2	4426.8	3326.0
27.5°	4309.5	4317.5	4265.8	4146.6	4081.0	4069.1	4128.7	4213.2	4747.6	4579.7	3348.9
30°	4664.2	4668.2	4600.6	4477.4	4417.8	4341.3	4337.3	4388.0	4845.0	4755.6	3370.7
32.5°	5068.5	5079.4	4969.2	4841.0	4736.7	4637.4	4588.7	4631.4	5019.8	4985.1	3415.4
35°	5652.7	5605.0	5456.0	5262.2	5114.2	4984.1	4909.6	4937.4	5252.3	5260.3	3504.8
37.5°	6254.7	6249.7	6084.8	5805.6	5563.2	5401.3	5274.2	5319.9	5579.1	5628.8	3647.9
40°	6816.0	6828.9	6685.8	6442.4	6130.5	5852.3	5716.2	5747.0	6013.3	6075.9	3821.8
42.5°	7182.6	7175.6	7186.5	7117.0	6804.1	6476.2	6271.6	6288.5	6517.9	6550.7	4039.3
45°	7351.4	7324.6	7418.0	7638.5	7514.4	7169.6	6936.2	6915.3	7041.5	7032.5	4237.0
47.5°	7205.4	7155.7	7370.3	7901.8	8142.2	8037.9	7704.1	7666.4	7559.1	7487.5	4442.7
50°	6479.2	6457.3	6916.3	7776.6	8536.6	8840.6	8595.2	8455.1	8021.0	7823.3	4550.9
52.5°	5788.8	5728.2	6038.1	7137.8	8360.8	9486.3	9537.0	9287.6	8404.5	7919.7	4514.2
55°	4676.1	4601.6	4939.4	5864.3	7664.4	9568.8	10198.6	10068.5	8740.3	7800.5	4439.7
57.5°	2840.2	2766.7	3263.4	4200.3	6129.5	8883.3	10035.7	10167.8	8998.6	7669.3	4391.0
60°	1194.1	1147.4	1342.1	2004.8	3914.1	7300.8	9171.4	9501.2	9047.2	7489.5	4410.9
62.5°	620.9	600.0	611.0	802.7	1582.5	4807.2	7633.6	8207.8	8556.5	7410.0	4430.7
65°	465.9	450.0	415.3	441.1	614.9	2078.3	5485.8	6254.7	7492.5	7208.4	4296.6
67.5°	382.5	367.6	342.7	334.8	362.6	721.2	2800.5	3799.9	5871.2	6349.1	3815.8
70°	305.0	300.0	292.1	277.2	272.2	349.7	1004.4	1548.8	3882.4	4477.4	2765.7
72.5°	254.3	255.3	246.4	233.5	215.6	225.5	400.4	529.5	1878.6	2146.8	1158.3
75°	212.6	212.6	215.6	197.7	179.8	155.0	222.5	258.3	603.0	495.7	247.4
77.5°	166.9	168.9	181.8	166.9	144.0	97.4	121.2	138.1	178.8	143.1	90.4
80°	133.1	131.1	126.2	150.0	129.1	68.5	57.6	63.6	83.4	68.5	44.7
82.5°	93.4	92.4	88.4	101.3	100.3	50.7	37.8	38.7	50.7	43.7	27.8
85°	22.8	26.8	56.6	47.7	41.7	29.8	22.8	24.8	32.8	28.8	14.9
87.5°	9.9	9.9	25.8	30.8	19.9	12.9	9.9	10.9	16.9	16.9	8.9
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°	2653.5	2653.5	2653.5	2653.5	2653.5	2653.5	2653.5	2653.5	2653.5	2653.5	2653.5
2.5°	2662.4	2597.8	2516.4	2429.9	2341.5	2235.2	2167.7	2112.0	2068.3	2034.6	2022.6
5°	2672.3	2548.2	2363.4	2133.9	1900.4	1681.9	1513.0	1387.8	1284.5	1227.9	1203.1
7.5°	2671.4	2506.4	2172.6	1788.2	1408.7	1093.8	870.3	732.2	639.8	602.0	579.2
10°	2670.4	2451.8	1955.1	1404.7	941.8	633.8	466.9	389.4	355.7	342.7	340.7
12.5°	2699.2	2389.2	1711.7	1034.2	591.1	394.4	324.9	307.0	299.0	295.1	294.1
15°	2715.1	2331.6	1455.4	730.2	398.4	311.9	290.1	282.1	279.2	277.2	276.2
17.5°	2732.0	2242.2	1212.0	528.5	318.9	283.1	270.2	265.2	263.3	263.3	263.3
20°	2734.9	2145.8	970.6	389.4	283.1	264.3	251.3	246.4	243.4	241.4	241.4
22.5°	2713.1	2031.6	763.0	315.9	262.3	246.4	232.5	224.5	219.5	218.6	218.6
25°	2658.4	1869.6	585.1	277.2	245.4	228.5	211.6	202.7	198.7	198.7	198.7
27.5°	2580.0	1678.9	452.0	246.4	223.5	206.6	191.7	183.8	182.8	181.8	182.8
30°	2490.5	1495.1	345.7	218.6	197.7	183.8	171.9	167.9	169.9	169.9	170.9
32.5°	2401.1	1311.3	270.2	196.7	174.8	162.9	157.0	157.0	159.9	159.9	159.9
35°	2324.6	1131.5	226.5	178.8	158.9	149.0	146.0	149.0	151.0	152.0	152.0
37.5°	2281.9	976.5	199.7	162.9	146.0	138.1	137.1	140.1	144.0	147.0	148.0
40°	2266.0	857.3	183.8	151.0	134.1	129.1	128.2	132.1	139.1	144.0	145.0
42.5°	2267.0	752.0	169.9	139.1	126.2	119.2	119.2	125.2	132.1	137.1	137.1
45°	2274.0	661.6	156.0	127.2	119.2	107.3	108.3	116.2	121.2	126.2	126.2
47.5°	2279.9	589.1	141.1	114.2	103.3	97.4	99.3	105.3	112.3	120.2	120.2
50°	2245.2	537.4	126.2	100.3	90.4	88.4	92.4	97.4	107.3	115.2	116.2
52.5°	2161.7	490.8	113.3	89.4	81.5	82.5	87.4	90.4	98.4	99.3	100.3
55°	2125.0	466.9	103.3	81.5	74.5	77.5	80.5	81.5	79.5	74.5	74.5
57.5°	2117.0	451.0	93.4	73.5	68.5	72.5	71.5	65.6	59.6	53.6	52.7
60°	2125.0	429.2	85.4	63.6	62.6	63.6	60.6	49.7	41.7	37.8	35.8
62.5°	2079.3	397.4	78.5	54.6	54.6	53.6	45.7	33.8	26.8	23.8	22.8
65°	1928.3	334.8	71.5	45.7	44.7	42.7	30.8	22.8	17.9	14.9	13.9
67.5°	1631.2	259.3	64.6	37.8	35.8	29.8	19.9	14.9	9.9	8.9	7.9
70°	1112.6	160.9	54.6	29.8	26.8	18.9	11.9	8.9	6.0	5.0	4.0
72.5°	403.3	93.4	45.7	22.8	17.9	11.9	7.0	4.0	3.0	3.0	2.0
75°	95.4	65.6	34.8	16.9	11.9	7.0	4.0	3.0	2.0	2.0	1.0
77.5°	43.7	50.7	22.8	9.9	7.9	5.0	3.0	2.0	1.0	1.0	0.0
80°	24.8	35.8	10.9	7.0	6.0	4.0	2.0	1.0	1.0	0.0	0.0
82.5°	12.9	19.9	7.9	6.0	5.0	3.0	2.0	0.0	0.0	0.0	0.0
85°	8.9	9.9	6.0	5.0	4.0	3.0	2.0	0.0	0.0	0.0	0.0
87.5°	7.0	7.0	6.0	5.0	4.0	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)