

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: P674391

Luminaire Tested: **CCP-SA-2E-727-U-AFL-HSS**

Issue Date: 04/16/2023



Test Information

Test Method: LM-79-08
Report Number: P674391
Test Lab: INNOVATION CENTER(G2)
Issue Date: 04/16/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCP-SA-2E-727-U-AFL-HSS
Description: INVUE CLEAR CURVE POLE MOUNT Light Square Luminaire @1050mA w/ AFL distribution lens and House Side Shield
Light Source: (32) 2700K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

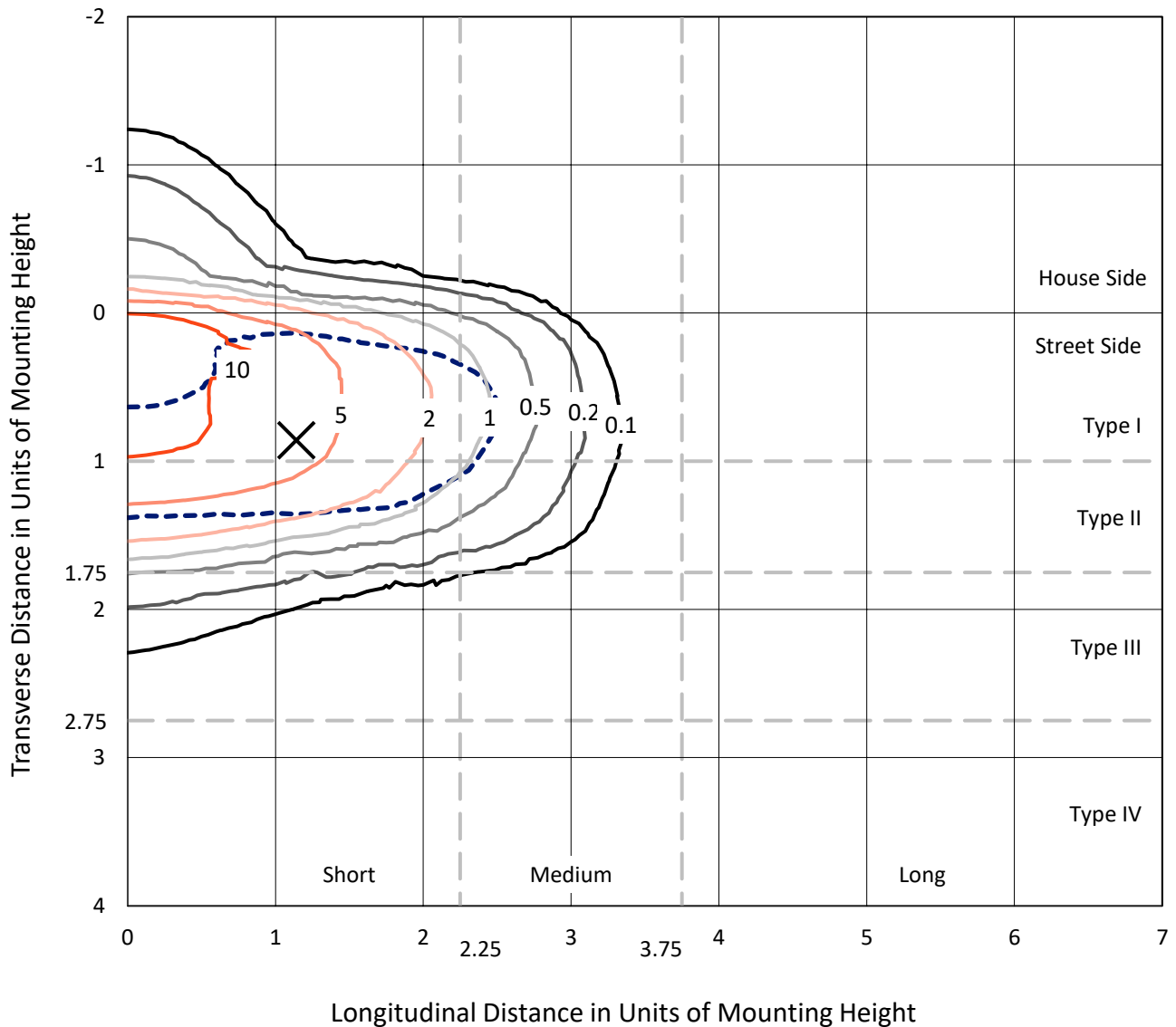
Lumens per Lamp: N/A
Luminaire Lumens: 9482.4 lumens
Efficiency: N/A
Efficacy: 89.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

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

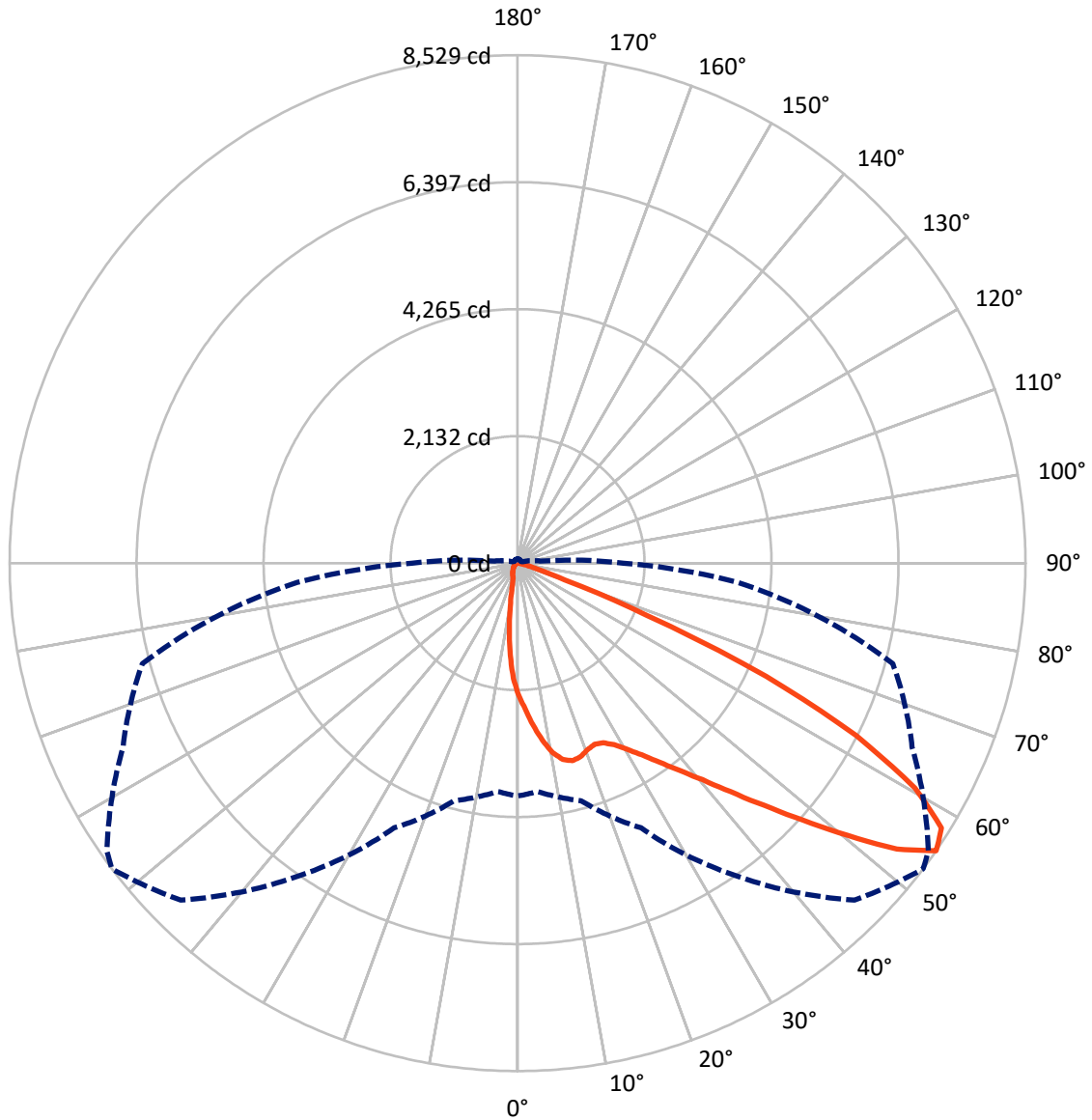
✕ Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 14.3 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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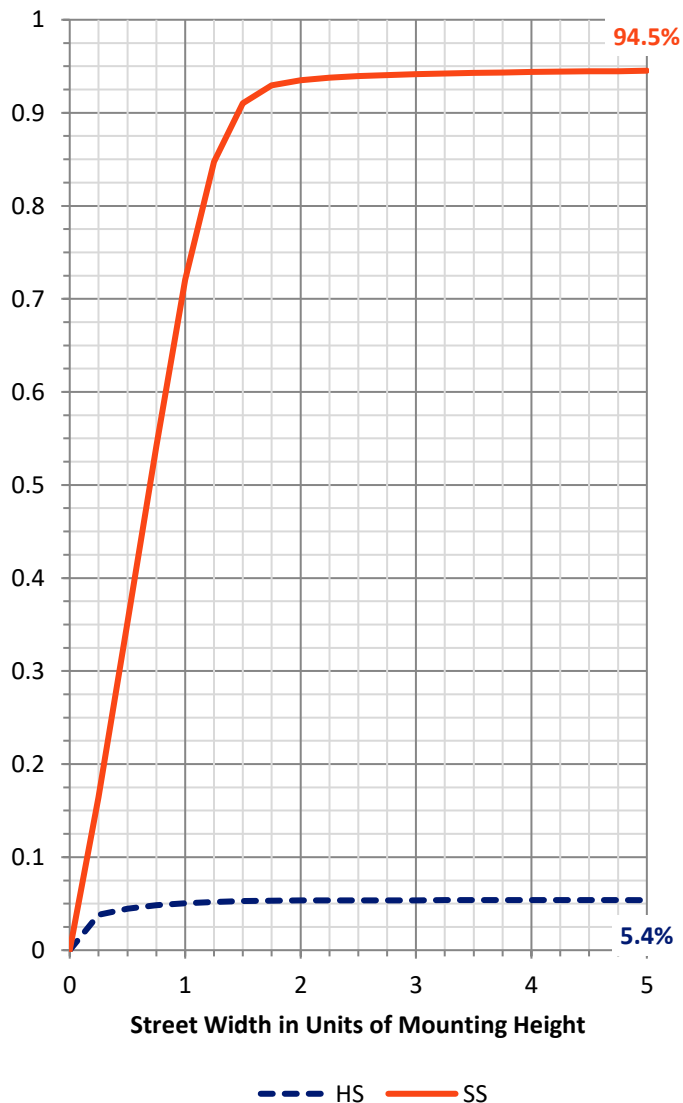
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	512.6	0.0	512.6
	% Fixture	5.4	0.0	5.4
Street Side	Lumens	8969.8	0.0	8969.8
	% Fixture	94.6	0.0	94.6
Total	Lumens	9482.4	0.0	9482.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	198.4	2.1
10°-20°	518.4	5.5
20°-30°	867.7	9.2
30°-40°	1419.5	15.0
40°-50°	2281.9	24.1
50°-60°	2576.3	27.2
60°-70°	1374.2	14.5
70°-80°	225.8	2.4
80°-90°	20.2	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°	9482.4	100.0
0°-180°	9482.4	100.0



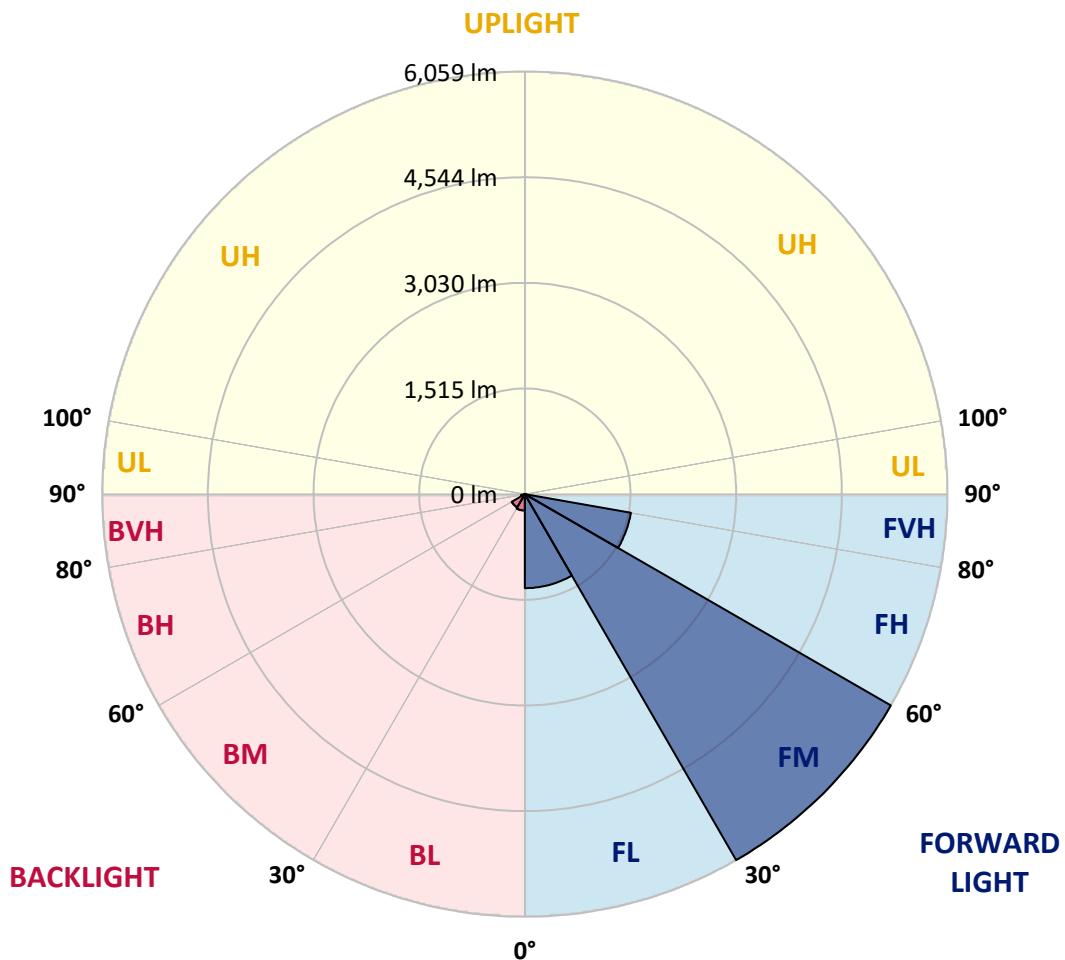
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1348.0	14.2			
FM (30°-60°)	6059.3	63.9			
FH (60°-80°)	1544.0	16.3			G1/1800
FVH (80°-90°)	18.6	0.2			G1/100
BL (0°-30°)	236.5	2.5	B1/500		
BM (30°-60°)	218.4	2.3	B0/220		
BH (60°-80°)	56.0	0.6	B0/110		G0/110
BVH (80°-90°)	1.6	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-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	2219.1	2219.1	2219.1	2219.1	2219.1	2219.1	2219.1	2219.1	2219.1	2219.1	2219.1
2.5°	2661.1	2645.3	2654.4	2630.3	2586.3	2531.5	2449.2	2453.4	2388.6	2332.1	2254.0
5°	3100.6	3084.0	3079.0	3017.5	2956.0	2857.2	2735.0	2715.1	2596.3	2452.6	2288.9
7.5°	3332.4	3318.3	3329.1	3306.6	3246.0	3156.3	3001.7	2986.8	2803.2	2585.5	2344.6
10°	3226.0	3221.1	3266.8	3319.9	3368.9	3358.1	3234.3	3211.1	3005.0	2731.7	2401.9
12.5°	2940.2	2956.0	3014.2	3112.2	3263.4	3405.5	3385.6	3389.7	3211.1	2890.4	2465.0
15°	2772.4	2791.5	2824.8	2875.4	3061.5	3314.1	3442.9	3484.4	3408.8	3067.4	2539.8
17.5°	2758.3	2774.1	2779.1	2798.2	2907.0	3167.1	3419.6	3498.5	3585.0	3234.3	2623.7
20°	2867.1	2873.8	2869.6	2855.5	2894.5	3087.3	3346.5	3459.5	3730.3	3412.1	2697.6
22.5°	3072.3	3062.4	3049.9	2997.6	2995.1	3109.7	3306.6	3424.6	3816.7	3559.2	2746.7
25°	3326.6	3305.8	3288.4	3214.4	3179.5	3226.9	3342.4	3437.1	3894.8	3702.1	2781.6
27.5°	3604.1	3610.7	3567.5	3467.8	3413.0	3403.0	3452.9	3523.5	3970.4	3830.0	2800.7
30°	3900.7	3904.0	3847.5	3744.5	3694.6	3630.6	3627.3	3669.7	4051.9	3977.1	2818.9
32.5°	4238.8	4247.9	4155.7	4048.5	3961.3	3878.2	3837.5	3873.2	4198.1	4169.0	2856.3
35°	4727.3	4687.4	4562.8	4400.8	4277.0	4168.2	4105.9	4129.1	4392.5	4399.1	2931.1
37.5°	5230.8	5226.6	5088.7	4855.3	4652.5	4517.1	4410.8	4449.0	4665.8	4707.4	3050.7
40°	5700.2	5711.0	5591.4	5387.8	5126.9	4894.3	4780.5	4806.2	5028.9	5081.2	3196.1
42.5°	6006.8	6001.0	6010.1	5951.9	5690.2	5416.1	5244.9	5259.0	5451.0	5478.4	3378.1
45°	6148.0	6125.6	6203.7	6388.1	6284.3	5996.0	5800.7	5783.3	5888.8	5881.3	3543.4
47.5°	6025.9	5984.3	6163.8	6608.3	6809.3	6722.1	6442.9	6411.4	6321.6	6261.8	3715.4
50°	5418.6	5400.3	5784.1	6503.6	7139.2	7393.4	7188.2	7071.0	6708.0	6542.6	3805.9
52.5°	4841.1	4790.5	5049.7	5969.4	6992.1	7933.4	7975.8	7767.3	7028.7	6623.2	3775.2
55°	3910.6	3848.3	4130.8	4904.3	6409.7	8002.4	8529.1	8420.3	7309.5	6523.5	3712.9
57.5°	2375.3	2313.8	2729.2	3512.7	5126.1	7429.1	8392.9	8503.4	7525.5	6413.9	3672.2
60°	998.6	959.6	1122.4	1676.6	3273.4	6105.6	7670.1	7945.9	7566.2	6263.5	3688.8
62.5°	519.3	501.8	510.9	671.3	1323.5	4020.3	6384.0	6864.2	7155.8	6197.0	3705.4
65°	389.7	376.4	347.3	368.9	514.3	1738.1	4587.7	5230.8	6266.0	6028.4	3593.3
67.5°	319.9	307.4	286.6	280.0	303.2	603.2	2342.1	3177.9	4910.1	5309.7	3191.1
70°	255.1	250.9	244.3	231.8	227.6	292.4	840.0	1295.2	3246.8	3744.5	2313.0
72.5°	212.7	213.5	206.0	195.2	180.3	188.6	334.8	442.8	1571.1	1795.4	968.7
75°	177.8	177.8	180.3	165.3	150.4	129.6	186.1	216.0	504.3	414.6	206.9
77.5°	139.6	141.2	152.0	139.6	120.5	81.4	101.4	115.5	149.5	119.6	75.6
80°	111.3	109.7	105.5	125.5	108.0	57.3	48.2	53.2	69.8	57.3	37.4
82.5°	78.1	77.3	73.9	84.7	83.9	42.4	31.6	32.4	42.4	36.6	23.3
85°	19.1	22.4	47.4	39.9	34.9	24.9	19.1	20.8	27.4	24.1	12.5
87.5°	8.3	8.3	21.6	25.8	16.6	10.8	8.3	9.1	14.1	14.1	7.5
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°	2219.1	2219.1	2219.1	2219.1	2219.1	2219.1	2219.1	2219.1	2219.1	2219.1	2219.1
2.5°	2226.6	2172.6	2104.4	2032.2	1958.2	1869.3	1812.8	1766.3	1729.7	1701.5	1691.5
5°	2234.9	2131.0	1976.5	1784.6	1589.3	1406.6	1265.3	1160.6	1074.2	1026.9	1006.1
7.5°	2234.1	2096.1	1817.0	1495.5	1178.1	914.7	727.8	612.3	535.0	503.5	484.4
10°	2233.2	2050.4	1635.0	1174.8	787.6	530.1	390.5	325.7	297.4	286.6	285.0
12.5°	2257.3	1998.1	1431.5	864.9	494.3	329.8	271.7	256.7	250.1	246.8	245.9
15°	2270.6	1949.9	1217.1	610.6	333.2	260.9	242.6	236.0	233.5	231.8	231.0
17.5°	2284.7	1875.1	1013.6	442.0	266.7	236.8	226.0	221.8	220.2	220.2	220.2
20°	2287.2	1794.6	811.7	325.7	236.8	221.0	210.2	206.0	203.5	201.9	201.9
22.5°	2268.9	1699.0	638.1	264.2	219.3	206.0	194.4	187.8	183.6	182.8	182.8
25°	2223.3	1563.6	489.3	231.8	205.2	191.1	177.0	169.5	166.2	166.2	166.2
27.5°	2157.6	1404.1	378.0	206.0	186.9	172.8	160.3	153.7	152.9	152.0	152.9
30°	2082.8	1250.4	289.1	182.8	165.3	153.7	143.7	140.4	142.1	142.1	142.9
32.5°	2008.1	1096.7	226.0	164.5	146.2	136.3	131.3	131.3	133.8	133.8	133.8
35°	1944.1	946.3	189.4	149.5	132.9	124.6	122.1	124.6	126.3	127.1	127.1
37.5°	1908.4	816.7	167.0	136.3	122.1	115.5	114.7	117.1	120.5	123.0	123.8
40°	1895.1	717.0	153.7	126.3	112.2	108.0	107.2	110.5	116.3	120.5	121.3
42.5°	1895.9	628.9	142.1	116.3	105.5	99.7	99.7	104.7	110.5	114.7	114.7
45°	1901.7	553.3	130.4	106.3	99.7	89.7	90.6	97.2	101.4	105.5	105.5
47.5°	1906.7	492.7	118.0	95.5	86.4	81.4	83.1	88.1	93.9	100.5	100.5
50°	1877.6	449.5	105.5	83.9	75.6	73.9	77.3	81.4	89.7	96.4	97.2
52.5°	1807.8	410.4	94.7	74.8	68.1	69.0	73.1	75.6	82.3	83.1	83.9
55°	1777.1	390.5	86.4	68.1	62.3	64.8	67.3	68.1	66.5	62.3	62.3
57.5°	1770.5	377.2	78.1	61.5	57.3	60.6	59.8	54.8	49.8	44.9	44.0
60°	1777.1	358.9	71.4	53.2	52.3	53.2	50.7	41.5	34.9	31.6	29.9
62.5°	1738.9	332.3	65.6	45.7	45.7	44.9	38.2	28.2	22.4	19.9	19.1
65°	1612.6	280.0	59.8	38.2	37.4	35.7	25.8	19.1	15.0	12.5	11.6
67.5°	1364.2	216.8	54.0	31.6	29.9	24.9	16.6	12.5	8.3	7.5	6.6
70°	930.5	134.6	45.7	24.9	22.4	15.8	10.0	7.5	5.0	4.2	3.3
72.5°	337.3	78.1	38.2	19.1	15.0	10.0	5.8	3.3	2.5	2.5	1.7
75°	79.8	54.8	29.1	14.1	10.0	5.8	3.3	2.5	1.7	1.7	0.8
77.5°	36.6	42.4	19.1	8.3	6.6	4.2	2.5	1.7	0.8	0.8	0.0
80°	20.8	29.9	9.1	5.8	5.0	3.3	1.7	0.8	0.8	0.0	0.0
82.5°	10.8	16.6	6.6	5.0	4.2	2.5	1.7	0.0	0.0	0.0	0.0
85°	7.5	8.3	5.0	4.2	3.3	2.5	1.7	0.0	0.0	0.0	0.0
87.5°	5.8	5.8	5.0	4.2	3.3	2.5	0.8	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)