

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: P674490

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

Issue Date: 04/16/2023



Test Information

Test Method: LM-79-08
Report Number: P674490
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-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, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

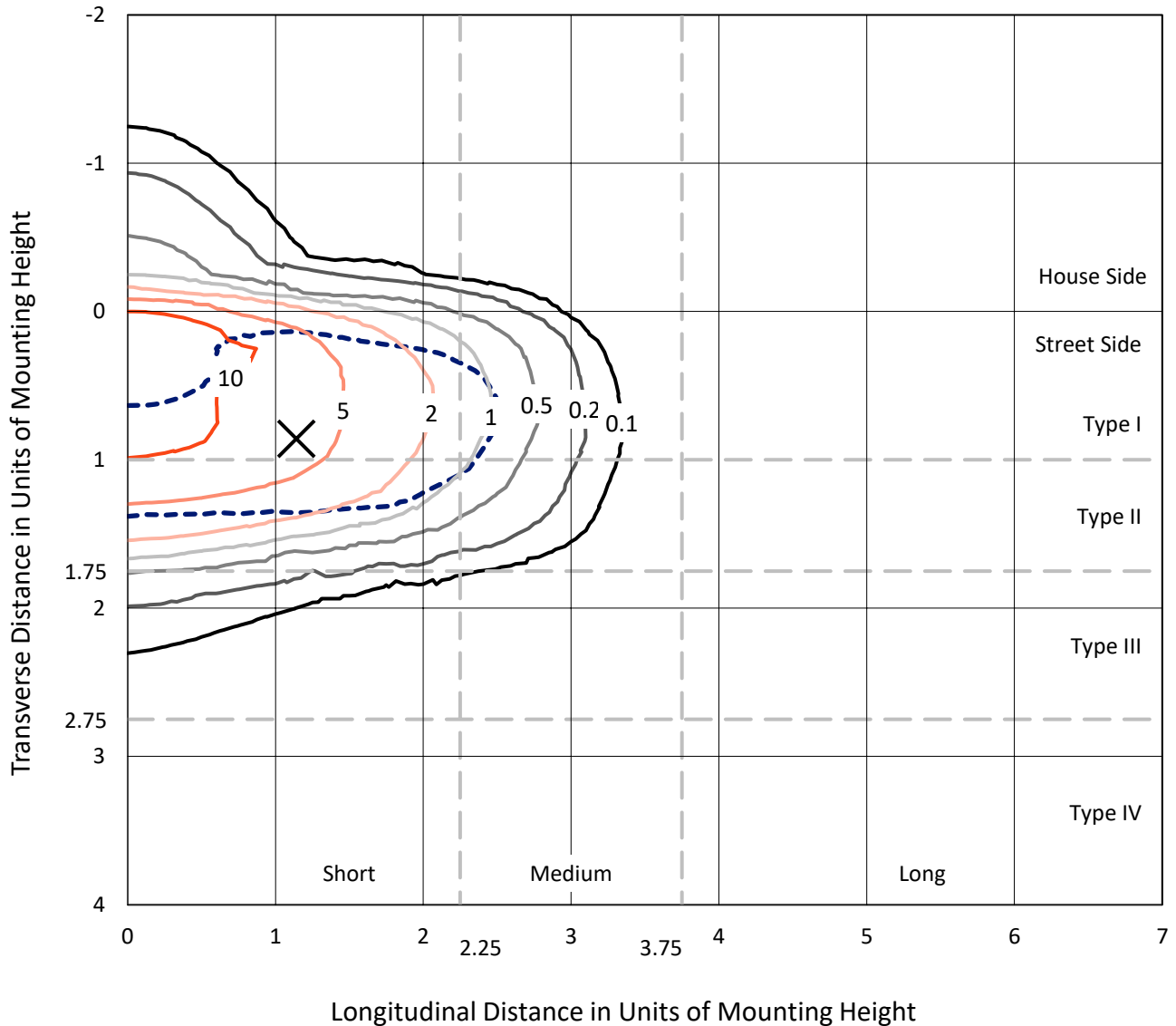
Lumens per Lamp: N/A
Luminaire Lumens: 9667.2 lumens
Efficiency: N/A
Efficacy: 90.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

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

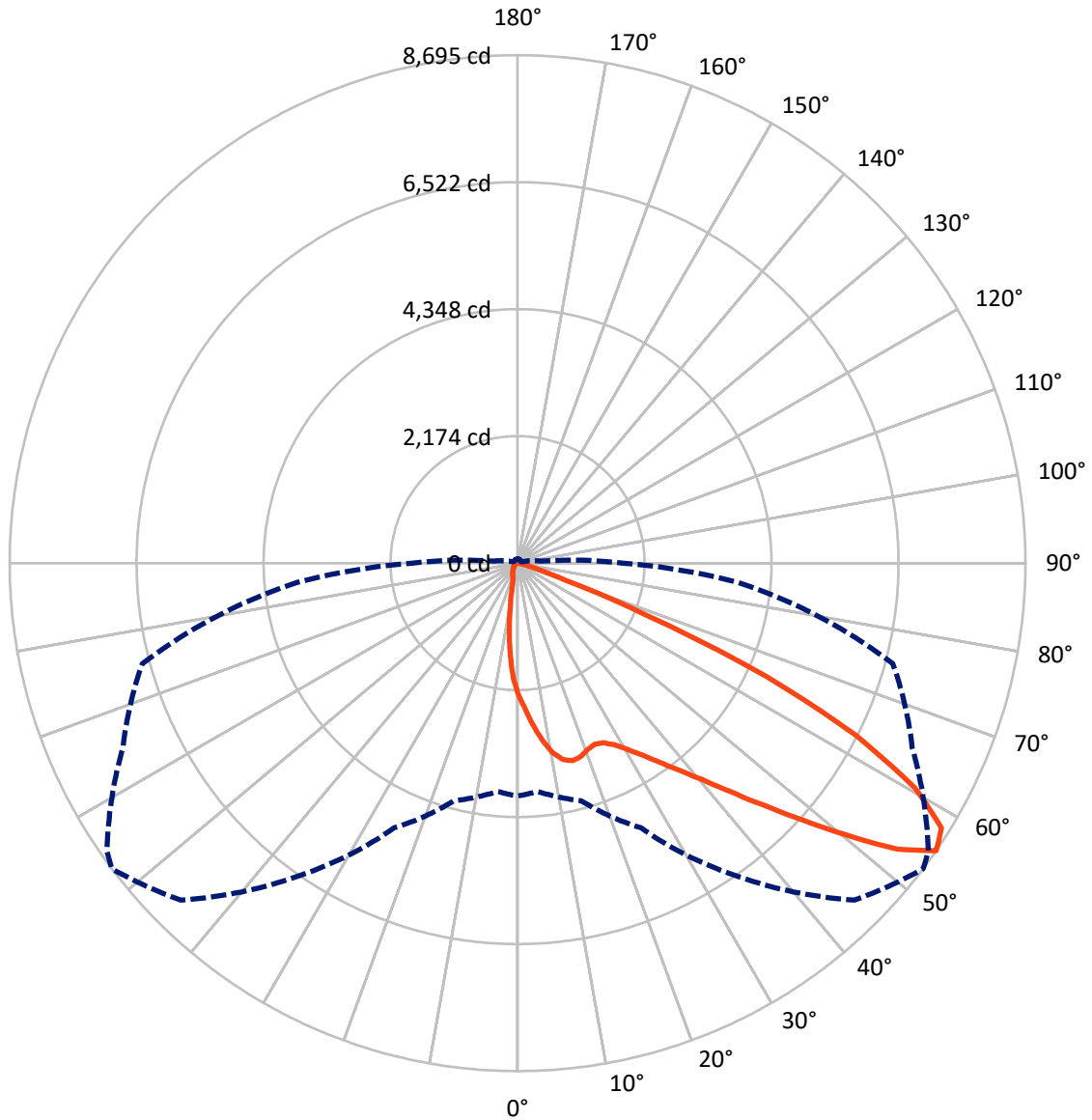
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 14.6 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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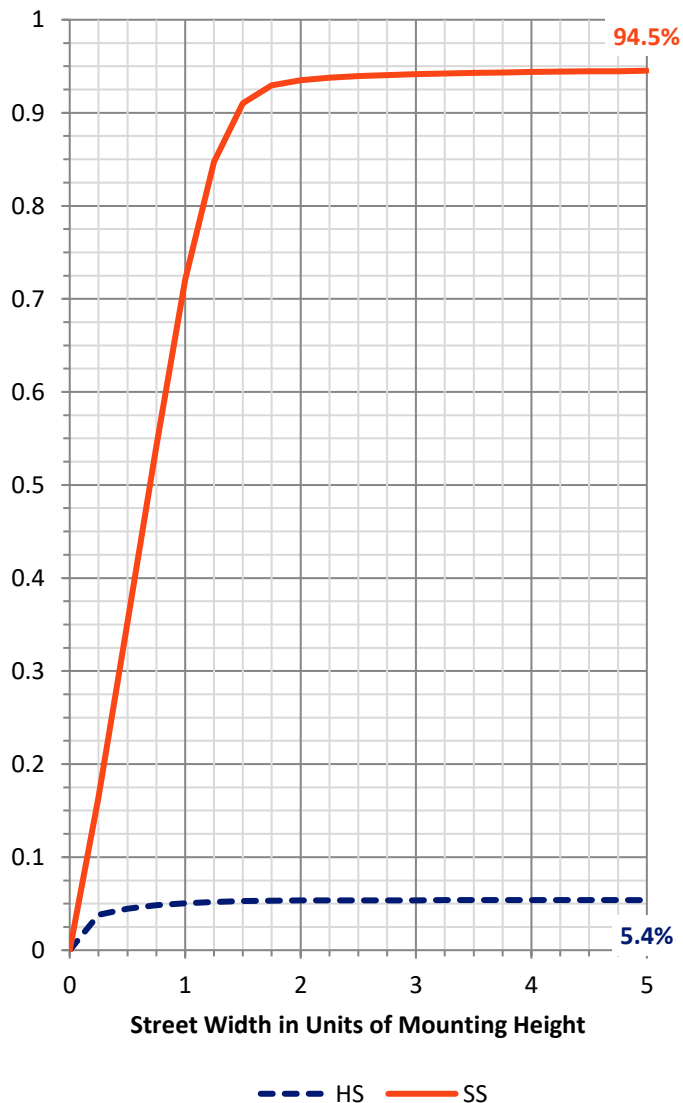
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	522.6	0.0	522.6
	% Fixture	5.4	0.0	5.4
Street Side	Lumens	9144.6	0.0	9144.6
	% Fixture	94.6	0.0	94.6
Total	Lumens	9667.2	0.0	9667.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	202.3	2.1
10°-20°	528.5	5.5
20°-30°	884.6	9.2
30°-40°	1447.2	15.0
40°-50°	2326.3	24.1
50°-60°	2626.5	27.2
60°-70°	1401.0	14.5
70°-80°	230.2	2.4
80°-90°	20.6	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°	9667.2	100.0
0°-180°	9667.2	100.0



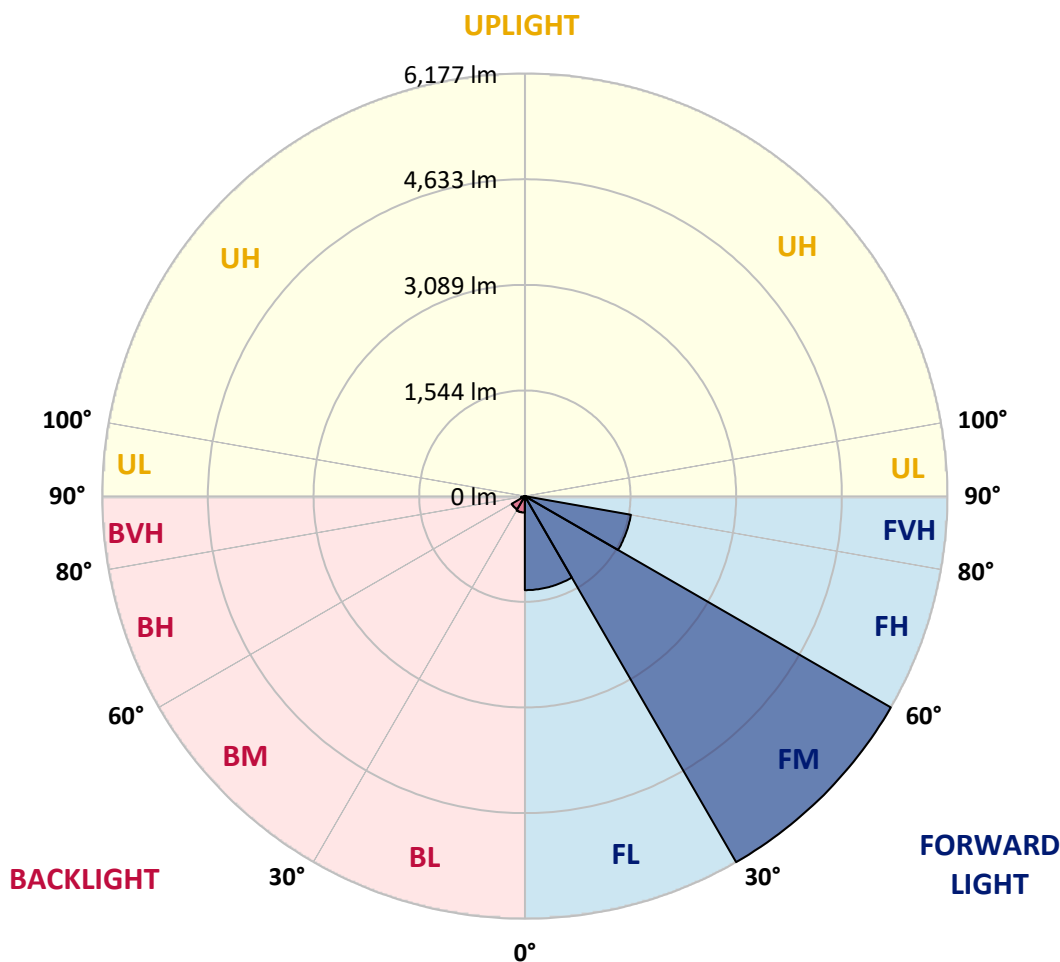
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1374.3	14.2			
FM (30°-60°)	6177.4	63.9			
FH (60°-80°)	1574.1	16.3			G1/1800
FVH (80°-90°)	18.9	0.2			G1/100
BL (0°-30°)	241.1	2.5	B1/500		
BM (30°-60°)	222.6	2.3	B1/1000		
BH (60°-80°)	57.1	0.6	B0/110		G0/110
BVH (80°-90°)	1.7	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°	2262.3	2262.3	2262.3	2262.3	2262.3	2262.3	2262.3	2262.3	2262.3	2262.3	2262.3
2.5°	2713.0	2696.9	2706.2	2681.6	2636.7	2580.8	2497.0	2501.2	2435.1	2377.5	2297.9
5°	3161.0	3144.1	3139.0	3076.3	3013.6	2912.8	2788.3	2768.0	2646.9	2500.4	2333.5
7.5°	3397.3	3382.9	3393.9	3371.1	3309.2	3217.8	3060.2	3045.0	2857.8	2635.9	2390.2
10°	3288.9	3283.8	3330.4	3384.6	3434.6	3423.6	3297.4	3273.7	3063.6	2785.0	2448.7
12.5°	2997.5	3013.6	3072.9	3172.9	3327.0	3471.9	3451.5	3455.8	3273.7	2946.7	2513.1
15°	2826.5	2845.9	2879.8	2931.5	3121.2	3378.7	3510.0	3552.3	3475.3	3127.1	2589.3
17.5°	2812.1	2828.1	2833.2	2852.7	2963.7	3228.8	3486.3	3566.7	3654.8	3297.4	2674.8
20°	2923.0	2929.8	2925.6	2911.2	2951.0	3147.5	3411.7	3526.9	3803.1	3478.6	2750.2
22.5°	3132.2	3122.1	3109.4	3056.0	3053.5	3170.3	3371.1	3491.4	3891.1	3628.6	2800.2
25°	3391.4	3370.2	3352.4	3277.1	3241.5	3289.8	3407.5	3504.1	3970.8	3774.3	2835.8
27.5°	3674.3	3681.1	3637.0	3535.4	3479.5	3469.3	3520.2	3592.1	4047.8	3904.7	2855.3
30°	3976.7	3980.1	3922.5	3817.5	3766.6	3701.4	3698.0	3741.2	4130.8	4054.6	2873.9
32.5°	4321.4	4330.7	4236.7	4127.5	4038.5	3953.8	3912.3	3948.7	4279.9	4250.3	2912.0
35°	4819.5	4778.8	4651.7	4486.6	4360.4	4249.4	4185.9	4209.6	4478.1	4484.9	2988.2
37.5°	5332.7	5328.5	5187.9	4949.9	4743.2	4605.2	4496.7	4535.7	4756.8	4799.1	3110.2
40°	5811.3	5822.3	5700.3	5492.8	5226.9	4989.7	4873.7	4899.9	5126.9	5180.3	3258.4
42.5°	6123.8	6117.9	6127.2	6067.9	5801.1	5521.6	5347.1	5361.5	5557.2	5585.1	3443.9
45°	6267.8	6245.0	6324.6	6512.6	6406.7	6112.8	5913.8	5896.0	6003.6	5995.9	3612.5
47.5°	6143.3	6101.0	6283.9	6737.1	6942.1	6853.1	6568.5	6536.3	6444.9	6383.9	3787.8
50°	5524.2	5505.5	5896.8	6630.4	7278.3	7537.5	7328.3	7208.9	6838.7	6670.2	3880.1
52.5°	4935.5	4883.8	5148.1	6085.7	7128.4	8088.0	8131.2	7918.6	7165.7	6752.3	3848.8
55°	3986.9	3923.3	4211.3	4999.9	6534.6	8158.3	8695.4	8584.4	7451.9	6650.7	3785.3
57.5°	2421.6	2358.9	2782.4	3581.1	5226.0	7573.9	8556.4	8669.1	7672.2	6538.9	3743.8
60°	1018.1	978.3	1144.3	1709.3	3337.2	6224.6	7819.5	8100.8	7713.7	6385.6	3760.7
62.5°	529.4	511.6	520.9	684.4	1349.3	4098.7	6508.4	6998.0	7295.3	6317.8	3777.6
65°	397.2	383.7	354.0	376.1	524.3	1771.9	4677.2	5332.7	6388.1	6145.9	3663.3
67.5°	326.1	313.4	292.2	285.4	309.2	614.9	2387.7	3239.8	5005.8	5413.2	3253.3
70°	260.0	255.8	249.0	236.3	232.1	298.1	856.3	1320.5	3310.1	3817.5	2358.1
72.5°	216.8	217.7	210.1	199.0	183.8	192.3	341.3	451.5	1601.7	1830.4	987.6
75°	181.3	181.3	183.8	168.6	153.3	132.1	189.7	220.2	514.1	422.7	210.9
77.5°	142.3	144.0	155.0	142.3	122.8	83.0	103.3	117.7	152.5	122.0	77.1
80°	113.5	111.8	107.6	127.9	110.1	58.4	49.1	54.2	71.1	58.4	38.1
82.5°	79.6	78.8	75.4	86.4	85.5	43.2	32.2	33.0	43.2	37.3	23.7
85°	19.5	22.9	48.3	40.7	35.6	25.4	19.5	21.2	28.0	24.6	12.7
87.5°	8.5	8.5	22.0	26.3	16.9	11.0	8.5	9.3	14.4	14.4	7.6
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°	2262.3	2262.3	2262.3	2262.3	2262.3	2262.3	2262.3	2262.3	2262.3	2262.3	2262.3
2.5°	2270.0	2214.9	2145.5	2071.8	1996.4	1905.8	1848.2	1800.7	1763.5	1734.7	1724.5
5°	2278.4	2172.6	2015.0	1819.4	1620.3	1434.0	1290.0	1183.3	1095.2	1046.9	1025.7
7.5°	2277.6	2137.0	1852.4	1524.6	1201.1	932.6	742.0	624.2	545.5	513.3	493.8
10°	2276.7	2090.4	1666.9	1197.7	803.0	540.4	398.1	332.0	303.2	292.2	290.5
12.5°	2301.3	2037.0	1459.4	881.7	504.0	336.3	277.0	261.7	254.9	251.6	250.7
15°	2314.9	1987.9	1240.9	622.5	339.6	266.0	247.3	240.5	238.0	236.3	235.5
17.5°	2329.3	1911.7	1033.3	450.6	271.9	241.4	230.4	226.2	224.5	224.5	224.5
20°	2331.8	1829.5	827.5	332.0	241.4	225.3	214.3	210.1	207.5	205.8	205.8
22.5°	2313.2	1732.1	650.5	269.3	223.6	210.1	198.2	191.4	187.2	186.3	186.3
25°	2266.6	1594.1	498.9	236.3	209.2	194.8	180.4	172.8	169.4	169.4	169.4
27.5°	2199.7	1431.4	385.4	210.1	190.6	176.2	163.5	156.7	155.8	155.0	155.8
30°	2123.4	1274.7	294.8	186.3	168.6	156.7	146.5	143.1	144.8	144.8	145.7
32.5°	2047.2	1118.0	230.4	167.7	149.1	138.9	133.8	133.8	136.4	136.4	136.4
35°	1982.0	964.7	193.1	152.5	135.5	127.1	124.5	127.1	128.7	129.6	129.6
37.5°	1945.6	832.6	170.2	138.9	124.5	117.7	116.9	119.4	122.8	125.4	126.2
40°	1932.0	731.0	156.7	128.7	114.3	110.1	109.3	112.7	118.6	122.8	123.7
42.5°	1932.9	641.2	144.8	118.6	107.6	101.6	101.6	106.7	112.7	116.9	116.9
45°	1938.8	564.1	133.0	108.4	101.6	91.5	92.3	99.1	103.3	107.6	107.6
47.5°	1943.9	502.3	120.3	97.4	88.1	83.0	84.7	89.8	95.7	102.5	102.5
50°	1914.2	458.2	107.6	85.5	77.1	75.4	78.8	83.0	91.5	98.3	99.1
52.5°	1843.1	418.4	96.6	76.2	69.5	70.3	74.5	77.1	83.9	84.7	85.5
55°	1811.7	398.1	88.1	69.5	63.5	66.1	68.6	69.5	67.8	63.5	63.5
57.5°	1805.0	384.5	79.6	62.7	58.4	61.8	61.0	55.9	50.8	45.7	44.9
60°	1811.7	365.9	72.8	54.2	53.4	54.2	51.7	42.4	35.6	32.2	30.5
62.5°	1772.8	338.8	66.9	46.6	46.6	45.7	39.0	28.8	22.9	20.3	19.5
65°	1644.0	285.4	61.0	39.0	38.1	36.4	26.3	19.5	15.2	12.7	11.9
67.5°	1390.8	221.1	55.1	32.2	30.5	25.4	16.9	12.7	8.5	7.6	6.8
70°	948.6	137.2	46.6	25.4	22.9	16.1	10.2	7.6	5.1	4.2	3.4
72.5°	343.9	79.6	39.0	19.5	15.2	10.2	5.9	3.4	2.5	2.5	1.7
75°	81.3	55.9	29.6	14.4	10.2	5.9	3.4	2.5	1.7	1.7	0.8
77.5°	37.3	43.2	19.5	8.5	6.8	4.2	2.5	1.7	0.8	0.8	0.0
80°	21.2	30.5	9.3	5.9	5.1	3.4	1.7	0.8	0.8	0.0	0.0
82.5°	11.0	16.9	6.8	5.1	4.2	2.5	1.7	0.0	0.0	0.0	0.0
85°	7.6	8.5	5.1	4.2	3.4	2.5	1.7	0.0	0.0	0.0	0.0
87.5°	5.9	5.9	5.1	4.2	3.4	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)