

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: P674468

Luminaire Tested: **CCP-SA-2E-830-U-AFL-HSS**

Issue Date: 04/16/2023



Test Information

Test Method: LM-79-08
Report Number: P674468
Test Lab: INNOVATION CENTER(G2)
Issue Date: 04/16/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCP-SA-2E-830-U-AFL-HSS
Description: INVUE CLEAR CURVE POLE MOUNT Light Square Luminaire @1050mA w/ AFL distribution lens and House Side Shield
Light Source: (32) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

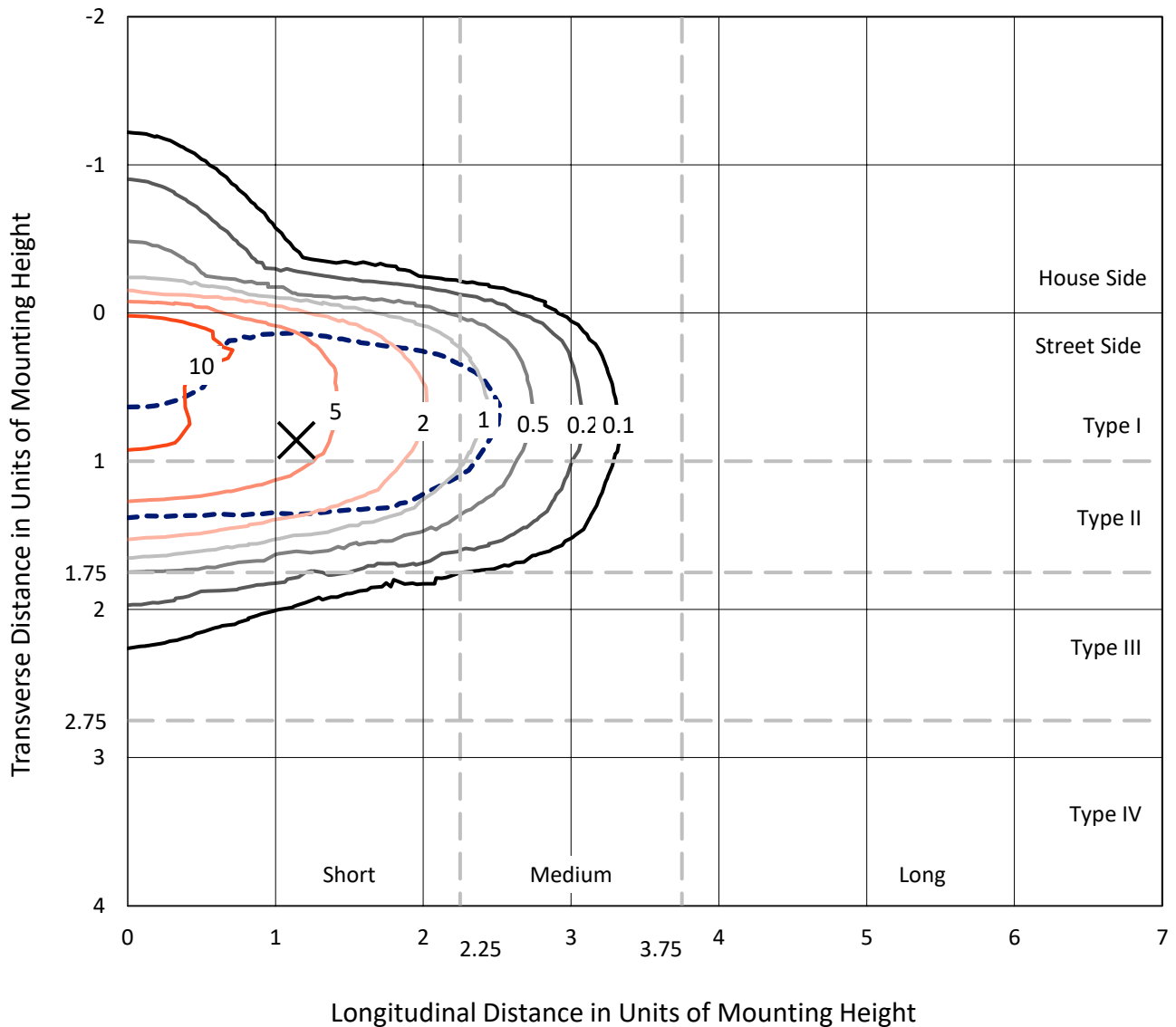
Lumens per Lamp: N/A
Luminaire Lumens: 9009.6 lumens
Efficiency: N/A
Efficacy: 84.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

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

REPORT NUMBER: P674468
 CATALOG NUMBER: CCP-SA-2E-830-U-AFL-HSS

Iso-Footcandle Lines of Horizontal Illumination

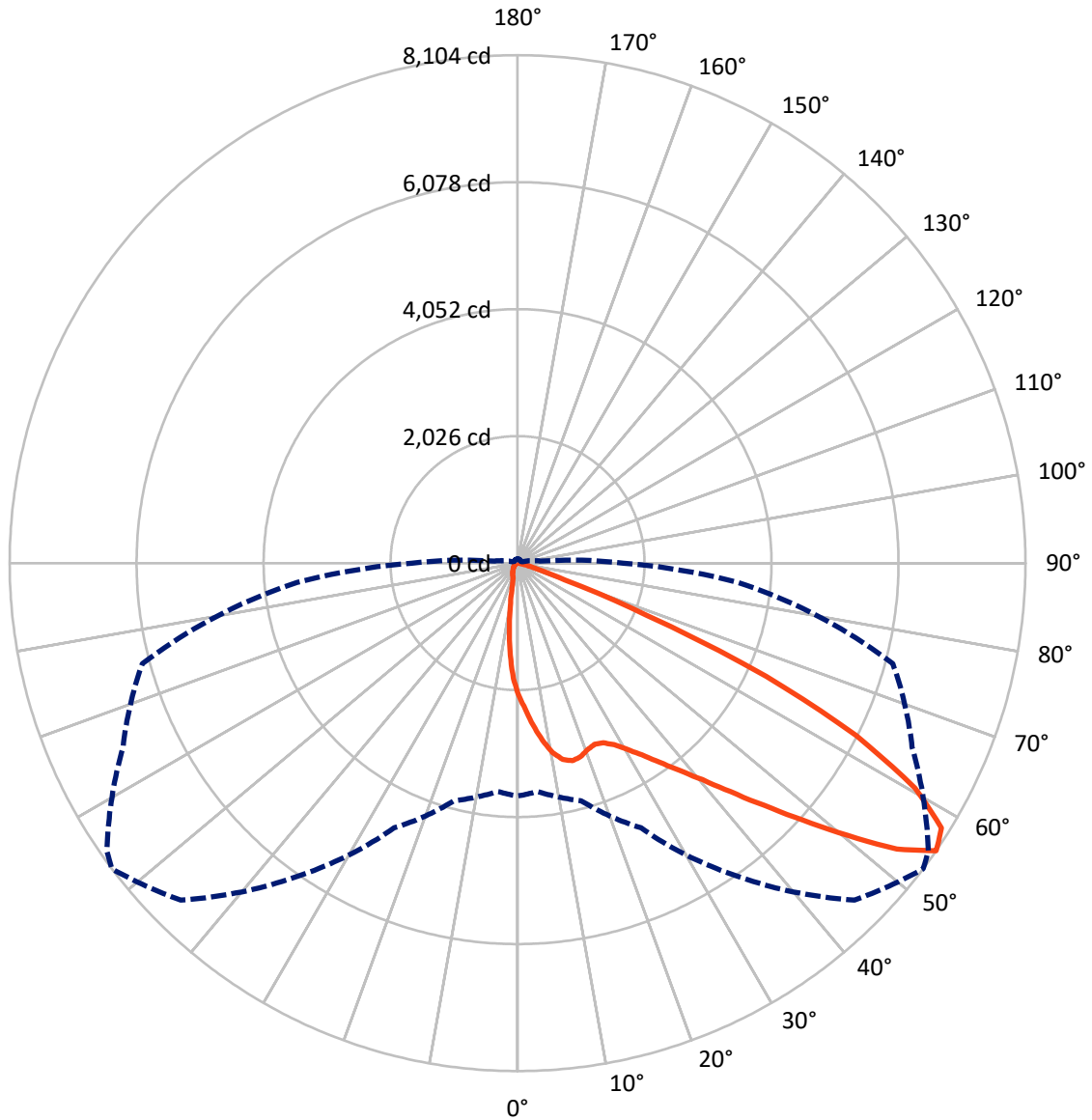
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 13.6 fc
 Type II - Short - N/A

REPORT NUMBER: P674468
CATALOG NUMBER: CCP-SA-2E-830-U-AFL-HSS

Luminous Intensity Polar Plot



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

REPORT NUMBER: P674468
 CATALOG NUMBER: CCP-SA-2E-830-U-AFL-HSS

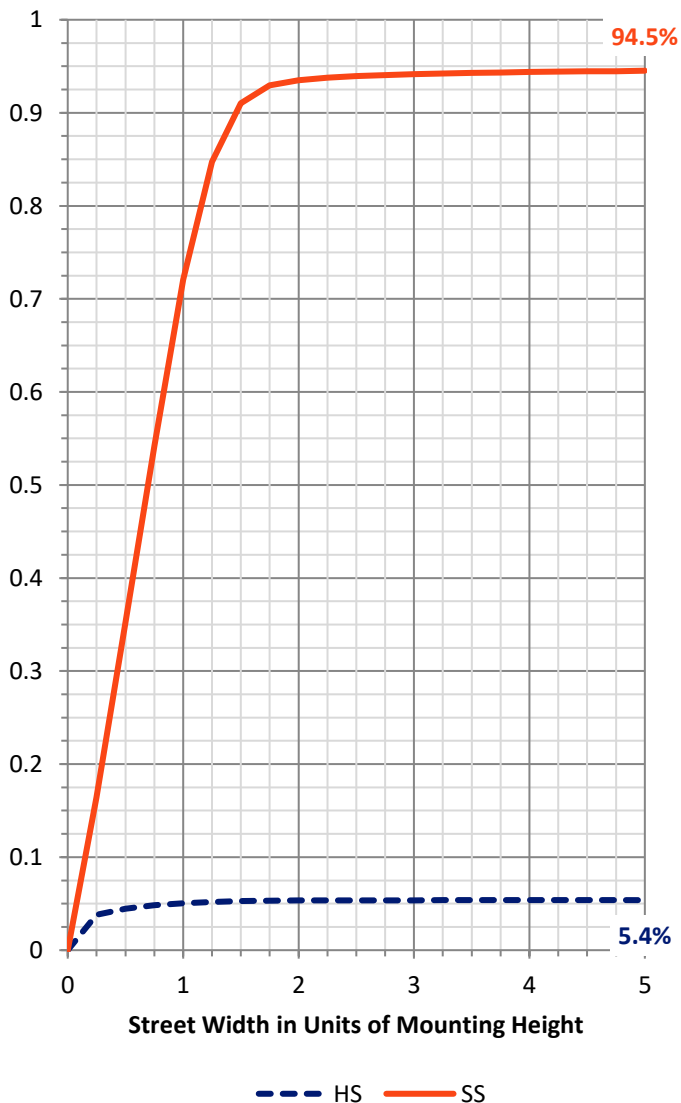
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	487.0	0.0	487.0
	% Fixture	5.4	0.0	5.4
Street Side	Lumens	8522.6	0.0	8522.6
	% Fixture	94.6	0.0	94.6
Total	Lumens	9009.6	0.0	9009.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	188.5	2.1
10°-20°	492.6	5.5
20°-30°	824.4	9.2
30°-40°	1348.8	15.0
40°-50°	2168.1	24.1
50°-60°	2447.8	27.2
60°-70°	1305.7	14.5
70°-80°	214.6	2.4
80°-90°	19.2	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°	9009.6	100.0
0°-180°	9009.6	100.0



REPORT NUMBER: P674468

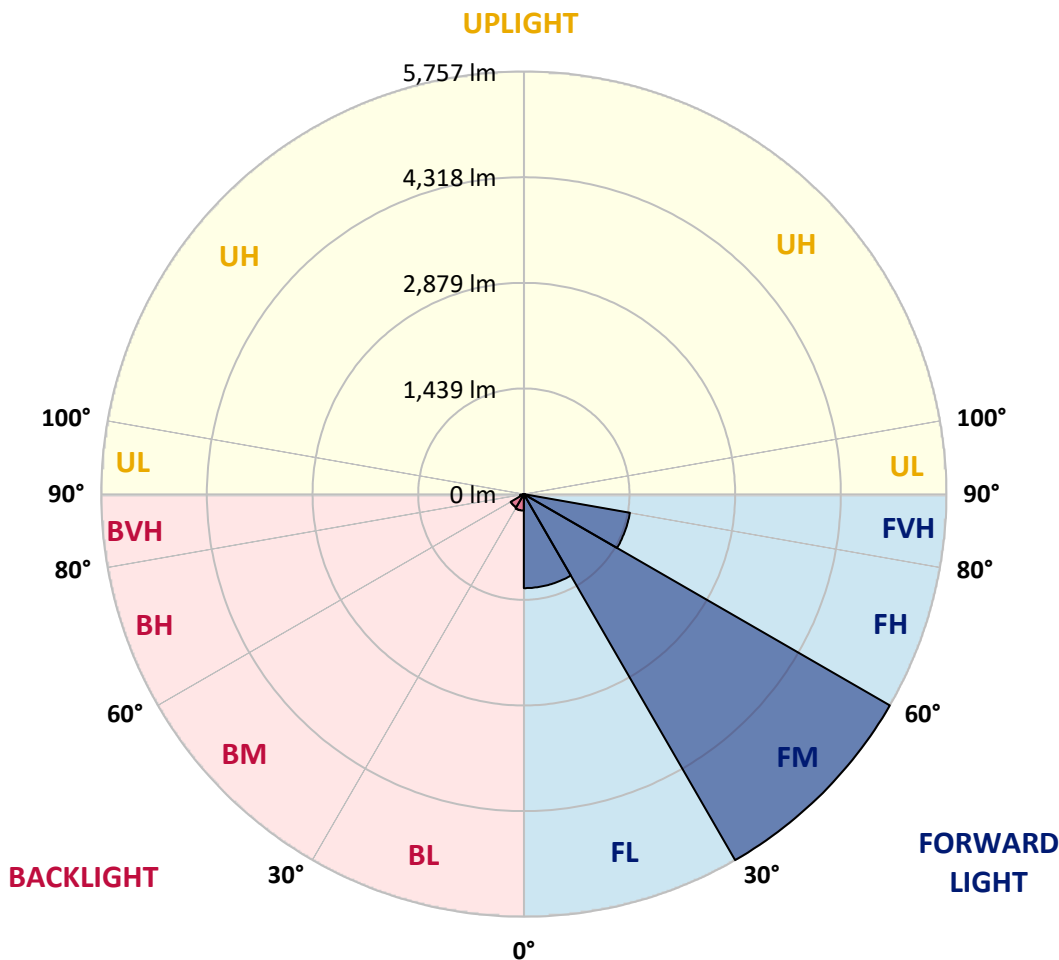
CATALOG NUMBER: CCP-SA-2E-830-U-AFL-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1280.8	14.2			
FM (30°-60°)	5757.2	63.9			
FH (60°-80°)	1467.0	16.3			G1/1800
FVH (80°-90°)	17.6	0.2			G1/100
BL (0°-30°)	224.7	2.5	B1/500		
BM (30°-60°)	207.5	2.3	B0/220		
BH (60°-80°)	53.2	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





REPORT NUMBER: P674468

CATALOG NUMBER: CCP-SA-2E-830-U-AFL-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	2108.4	2108.4	2108.4	2108.4	2108.4	2108.4	2108.4	2108.4	2108.4	2108.4	2108.4
2.5°	2528.4	2513.4	2522.1	2499.2	2457.4	2405.3	2327.1	2331.1	2269.5	2215.8	2141.6
5°	2946.0	2930.2	2925.5	2867.0	2808.6	2714.7	2598.7	2579.7	2466.8	2330.3	2174.8
7.5°	3166.2	3152.8	3163.1	3141.8	3084.1	2998.9	2852.0	2837.8	2663.4	2456.6	2227.6
10°	3065.2	3060.4	3103.9	3154.4	3201.0	3190.7	3073.1	3051.0	2855.2	2595.5	2282.1
12.5°	2793.6	2808.6	2863.9	2957.0	3100.7	3235.7	3216.7	3220.7	3051.0	2746.3	2342.1
15°	2634.2	2652.3	2683.9	2732.1	2908.9	3148.9	3271.2	3310.7	3238.8	2914.4	2413.2
17.5°	2620.8	2635.8	2640.5	2658.6	2762.1	3009.1	3249.1	3324.1	3406.2	3073.1	2492.9
20°	2724.2	2730.5	2726.5	2713.1	2750.2	2933.4	3179.6	3287.0	3544.3	3242.0	2563.1
22.5°	2919.1	2909.7	2897.8	2848.1	2845.7	2954.7	3141.8	3253.8	3626.4	3381.7	2609.7
25°	3160.7	3141.0	3124.4	3054.1	3021.0	3066.0	3175.7	3265.7	3700.6	3517.5	2642.9
27.5°	3424.4	3430.7	3389.6	3294.9	3242.8	3233.3	3280.7	3347.8	3772.5	3639.1	2661.0
30°	3706.2	3709.3	3655.6	3557.8	3510.4	3449.6	3446.5	3486.7	3849.8	3778.8	2678.4
32.5°	4027.4	4036.1	3948.5	3846.7	3763.8	3684.9	3646.2	3680.1	3988.8	3961.1	2713.9
35°	4491.6	4453.7	4335.3	4181.4	4063.8	3960.3	3901.1	3923.2	4173.5	4179.8	2785.0
37.5°	4970.0	4966.0	4835.0	4613.2	4420.6	4291.9	4190.8	4227.2	4433.2	4472.7	2898.6
40°	5416.0	5426.2	5312.6	5119.2	4871.3	4650.3	4542.1	4566.6	4778.1	4827.9	3036.8
42.5°	5707.3	5701.7	5710.4	5655.2	5406.5	5146.0	4983.4	4996.8	5179.2	5205.2	3209.6
45°	5841.5	5820.1	5894.3	6069.6	5970.9	5697.0	5511.5	5494.9	5595.2	5588.1	3366.7
47.5°	5725.4	5685.9	5856.4	6278.8	6469.8	6386.9	6121.7	6091.7	6006.4	5949.6	3530.1
50°	5148.4	5131.0	5495.7	6179.3	6783.2	7024.7	6829.8	6718.5	6373.5	6216.4	3616.2
52.5°	4599.7	4551.6	4797.9	5671.7	6643.5	7537.8	7578.1	7380.0	6678.2	6293.0	3587.0
55°	3715.6	3656.4	3924.8	4659.7	6090.1	7603.4	8103.8	8000.4	6945.0	6198.3	3527.8
57.5°	2256.9	2198.4	2593.1	3337.5	4870.5	7058.7	7974.4	8079.4	7150.3	6094.1	3489.1
60°	948.8	911.7	1066.5	1593.0	3110.2	5801.2	7287.6	7549.7	7188.9	5951.2	3504.9
62.5°	493.4	476.8	485.5	637.8	1257.5	3819.8	6065.6	6521.9	6799.0	5888.0	3520.7
65°	370.2	357.6	330.0	350.5	488.6	1651.4	4359.0	4970.0	5953.5	5727.8	3414.1
67.5°	303.9	292.1	272.3	266.0	288.1	573.1	2225.3	3019.4	4665.3	5045.0	3032.0
70°	242.3	238.4	232.1	220.2	216.3	277.9	798.1	1230.7	3084.9	3557.8	2197.6
72.5°	202.1	202.9	195.8	185.5	171.3	179.2	318.1	420.7	1492.7	1705.9	920.4
75°	168.9	168.9	171.3	157.1	142.9	123.1	176.8	205.2	479.2	393.9	196.6
77.5°	132.6	134.2	144.5	132.6	114.5	77.4	96.3	109.7	142.1	113.7	71.8
80°	105.8	104.2	100.3	119.2	102.6	54.5	45.8	50.5	66.3	54.5	35.5
82.5°	74.2	73.4	70.3	80.5	79.7	40.3	30.0	30.8	40.3	34.7	22.1
85°	18.2	21.3	45.0	37.9	33.2	23.7	18.2	19.7	26.0	22.9	11.8
87.5°	7.9	7.9	20.5	24.5	15.8	10.3	7.9	8.7	13.4	13.4	7.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P674468
 CATALOG NUMBER: CCP-SA-2E-830-U-AFL-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2108.4	2108.4	2108.4	2108.4	2108.4	2108.4	2108.4	2108.4	2108.4	2108.4	2108.4
2.5°	2115.6	2064.2	1999.5	1930.8	1860.6	1776.1	1722.4	1678.2	1643.5	1616.7	1607.2
5°	2123.4	2024.8	1877.9	1695.6	1510.1	1336.4	1202.2	1102.8	1020.7	975.7	955.9
7.5°	2122.7	1991.6	1726.4	1420.9	1119.3	869.1	691.5	581.8	508.4	478.4	460.2
10°	2121.9	1948.2	1553.5	1116.2	748.3	503.6	371.0	309.4	282.6	272.3	270.8
12.5°	2144.8	1898.5	1360.1	821.8	469.7	313.4	258.1	243.9	237.6	234.4	233.7
15°	2157.4	1852.7	1156.4	580.2	316.5	247.9	230.5	224.2	221.8	220.2	219.4
17.5°	2170.8	1781.6	963.1	420.0	253.4	225.0	214.7	210.8	209.2	209.2	209.2
20°	2173.2	1705.1	771.2	309.4	225.0	210.0	199.7	195.8	193.4	191.8	191.8
22.5°	2155.8	1614.3	606.2	251.0	208.4	195.8	184.7	178.4	174.5	173.7	173.7
25°	2112.4	1485.6	464.9	220.2	195.0	181.6	168.1	161.0	157.9	157.9	157.9
27.5°	2050.0	1334.1	359.2	195.8	177.6	164.2	152.4	146.0	145.2	144.5	145.2
30°	1979.0	1188.0	274.7	173.7	157.1	146.0	136.6	133.4	135.0	135.0	135.8
32.5°	1907.9	1042.0	214.7	156.3	138.9	129.5	124.7	124.7	127.1	127.1	127.1
35°	1847.2	899.1	180.0	142.1	126.3	118.4	116.0	118.4	120.0	120.8	120.8
37.5°	1813.2	776.0	158.7	129.5	116.0	109.7	108.9	111.3	114.5	116.8	117.6
40°	1800.6	681.2	146.0	120.0	106.6	102.6	101.8	105.0	110.5	114.5	115.3
42.5°	1801.4	597.6	135.0	110.5	100.3	94.7	94.7	99.5	105.0	108.9	108.9
45°	1806.9	525.7	123.9	101.0	94.7	85.3	86.0	92.4	96.3	100.3	100.3
47.5°	1811.6	468.1	112.1	90.8	82.1	77.4	78.9	83.7	89.2	95.5	95.5
50°	1784.0	427.1	100.3	79.7	71.8	70.3	73.4	77.4	85.3	91.6	92.4
52.5°	1717.7	390.0	90.0	71.0	64.7	65.5	69.5	71.8	78.1	78.9	79.7
55°	1688.5	371.0	82.1	64.7	59.2	61.6	63.9	64.7	63.2	59.2	59.2
57.5°	1682.2	358.4	74.2	58.4	54.5	57.6	56.8	52.1	47.4	42.6	41.8
60°	1688.5	341.0	67.9	50.5	49.7	50.5	48.2	39.5	33.2	30.0	28.4
62.5°	1652.2	315.8	62.4	43.4	43.4	42.6	36.3	26.8	21.3	18.9	18.2
65°	1532.2	266.0	56.8	36.3	35.5	33.9	24.5	18.2	14.2	11.8	11.1
67.5°	1296.2	206.0	51.3	30.0	28.4	23.7	15.8	11.8	7.9	7.1	6.3
70°	884.1	127.9	43.4	23.7	21.3	15.0	9.5	7.1	4.7	3.9	3.2
72.5°	320.5	74.2	36.3	18.2	14.2	9.5	5.5	3.2	2.4	2.4	1.6
75°	75.8	52.1	27.6	13.4	9.5	5.5	3.2	2.4	1.6	1.6	0.8
77.5°	34.7	40.3	18.2	7.9	6.3	3.9	2.4	1.6	0.8	0.8	0.0
80°	19.7	28.4	8.7	5.5	4.7	3.2	1.6	0.8	0.8	0.0	0.0
82.5°	10.3	15.8	6.3	4.7	3.9	2.4	1.6	0.0	0.0	0.0	0.0
85°	7.1	7.9	4.7	3.9	3.2	2.4	1.6	0.0	0.0	0.0	0.0
87.5°	5.5	5.5	4.7	3.9	3.2	2.4	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)