

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: P672020

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

Issue Date: 04/16/2023



Test Information

Test Method: LM-79-08
Report Number: P672020
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
Description: INVUE CLEAR CURVE POLE MOUNT LIGHT SQUARE LUMINAIRE @1050mA w/ AFL distribution lens
Light Source: (32) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

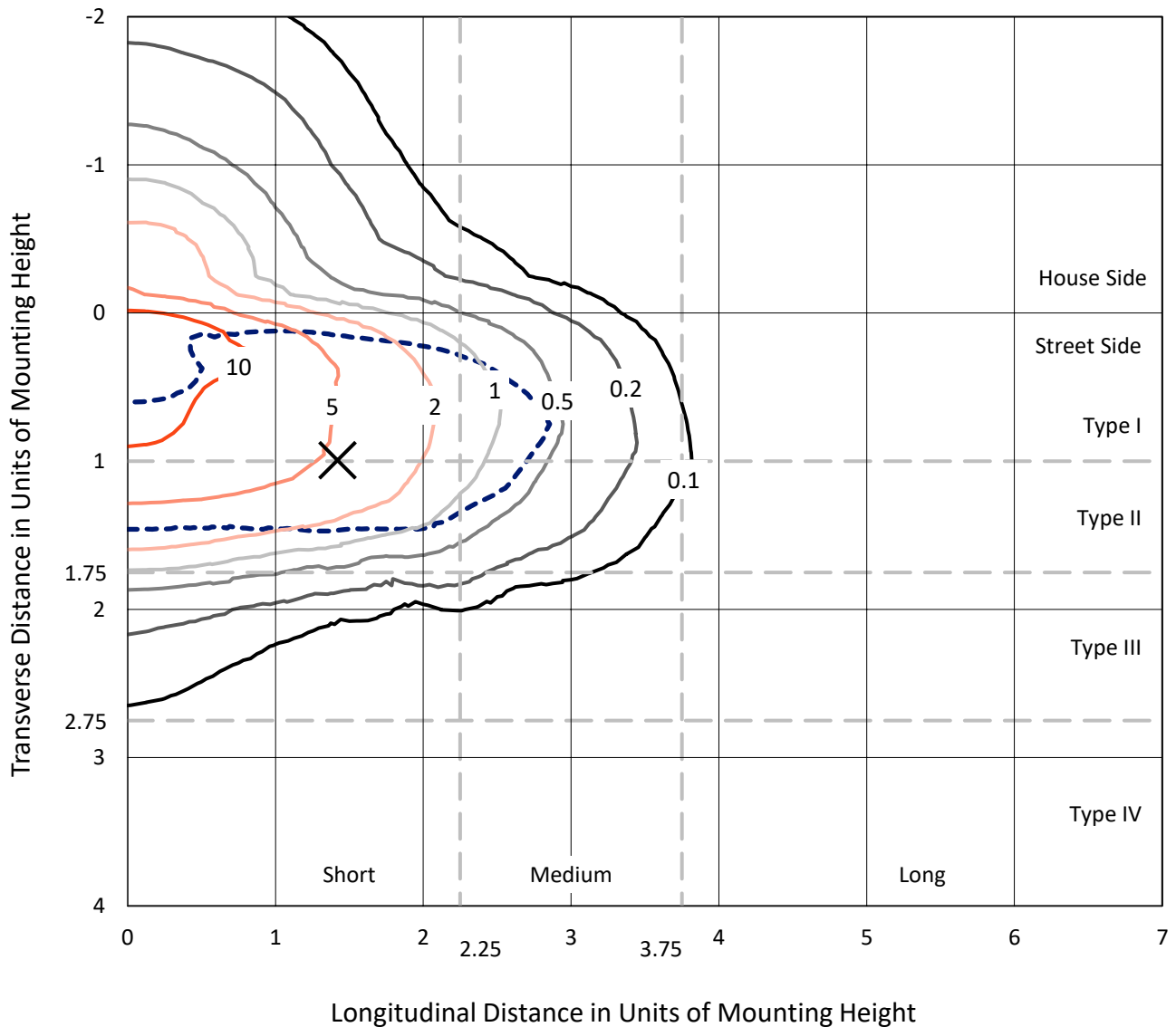
Lumens per Lamp: N/A
Luminaire Lumens: 10964 lumens
Efficiency: N/A
Efficacy: 102.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 106.6
Input Voltage (V): 120
Input Current (A_{in}): 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: P672020
 CATALOG NUMBER: CCP-SA-2E-830-U-AFL

Iso-Footcandle Lines of Horizontal Illumination

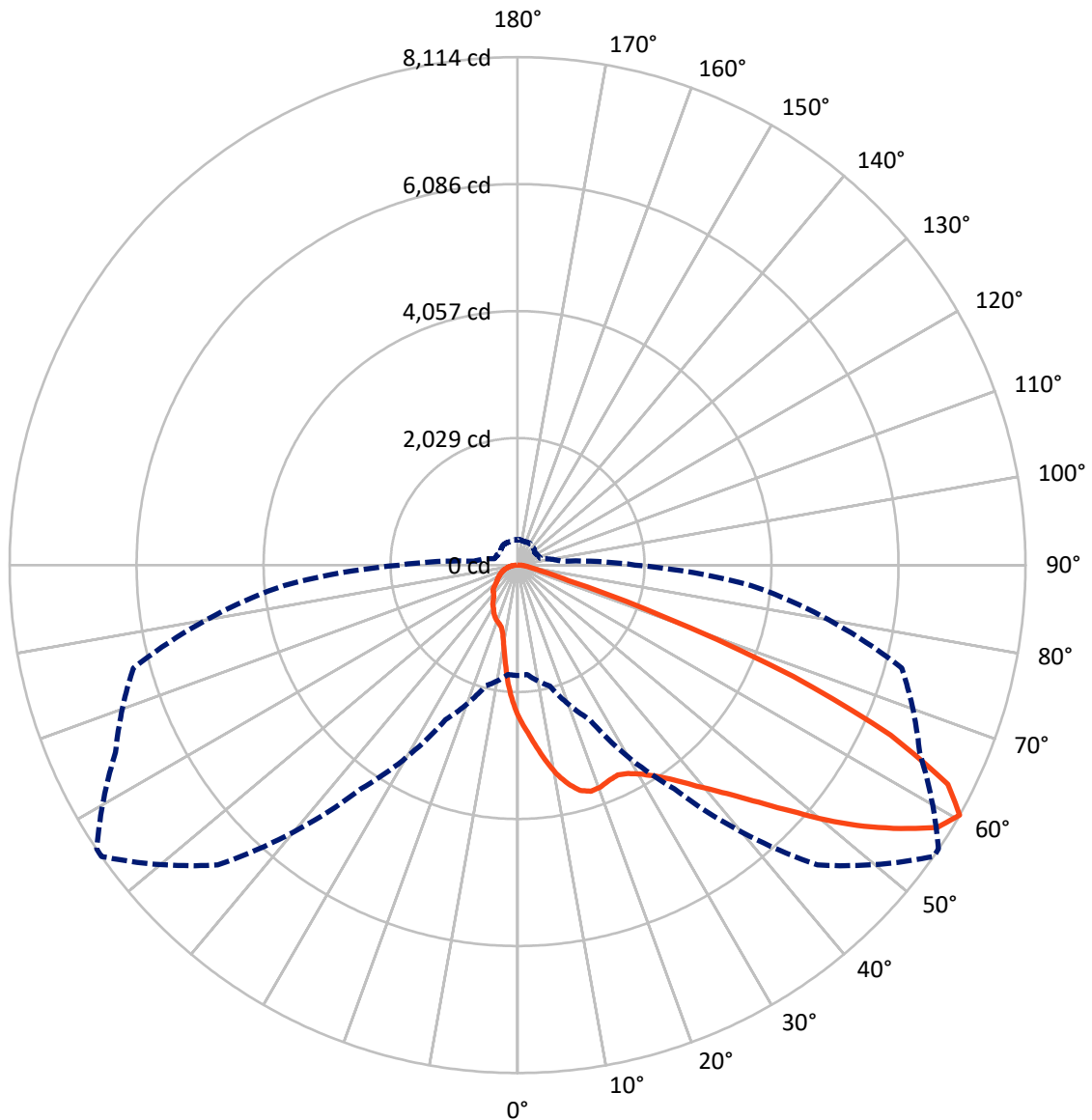
✕ Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 15.2 fc
 Type II - Short - N/A

REPORT NUMBER: P672020
CATALOG NUMBER: CCP-SA-2E-830-U-AFL

Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 60-Deg Vertical

REPORT NUMBER: P672020
 CATALOG NUMBER: CCP-SA-2E-830-U-AFL

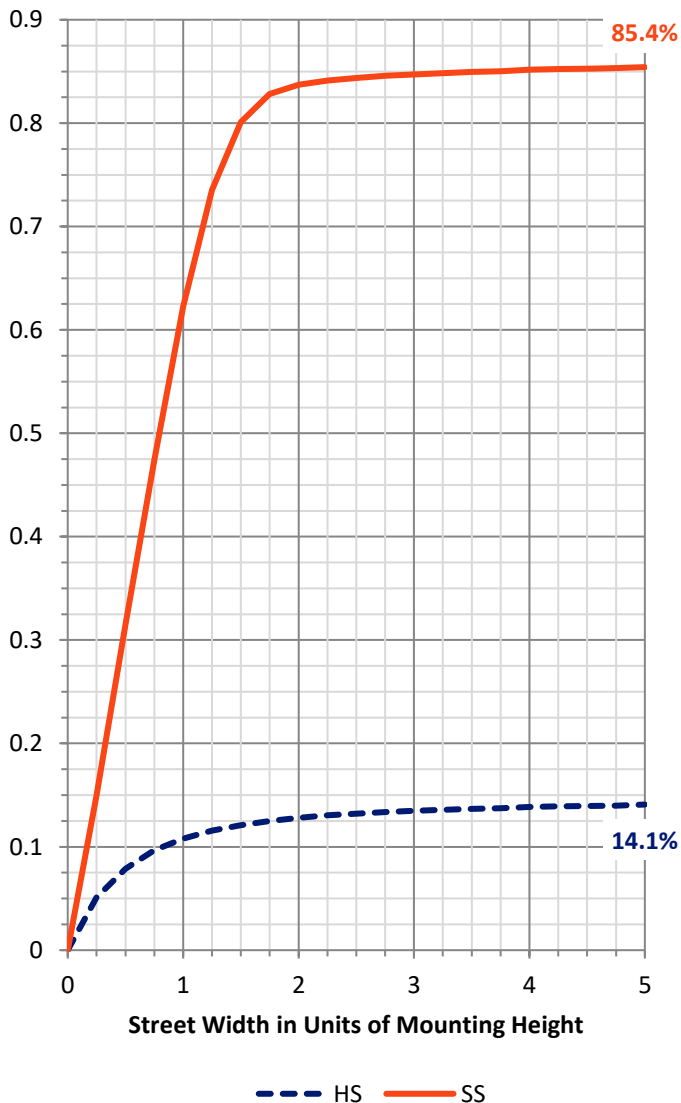
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1576.1	0.0	1576.1
	% Fixture	14.4	0.0	14.4
Street Side	Lumens	9387.9	0.0	9387.9
	% Fixture	85.6	0.0	85.6
Total	Lumens	10964.0	0.0	10964.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	227.6	2.1
10°-20°	644.7	5.9
20°-30°	1049.7	9.6
30°-40°	1568.9	14.3
40°-50°	2305.9	21.0
50°-60°	2702.6	24.6
60°-70°	1782.0	16.3
70°-80°	567.4	5.2
80°-90°	115.4	1.1
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°	10964.0	100.0
0°-180°	10964.0	100.0



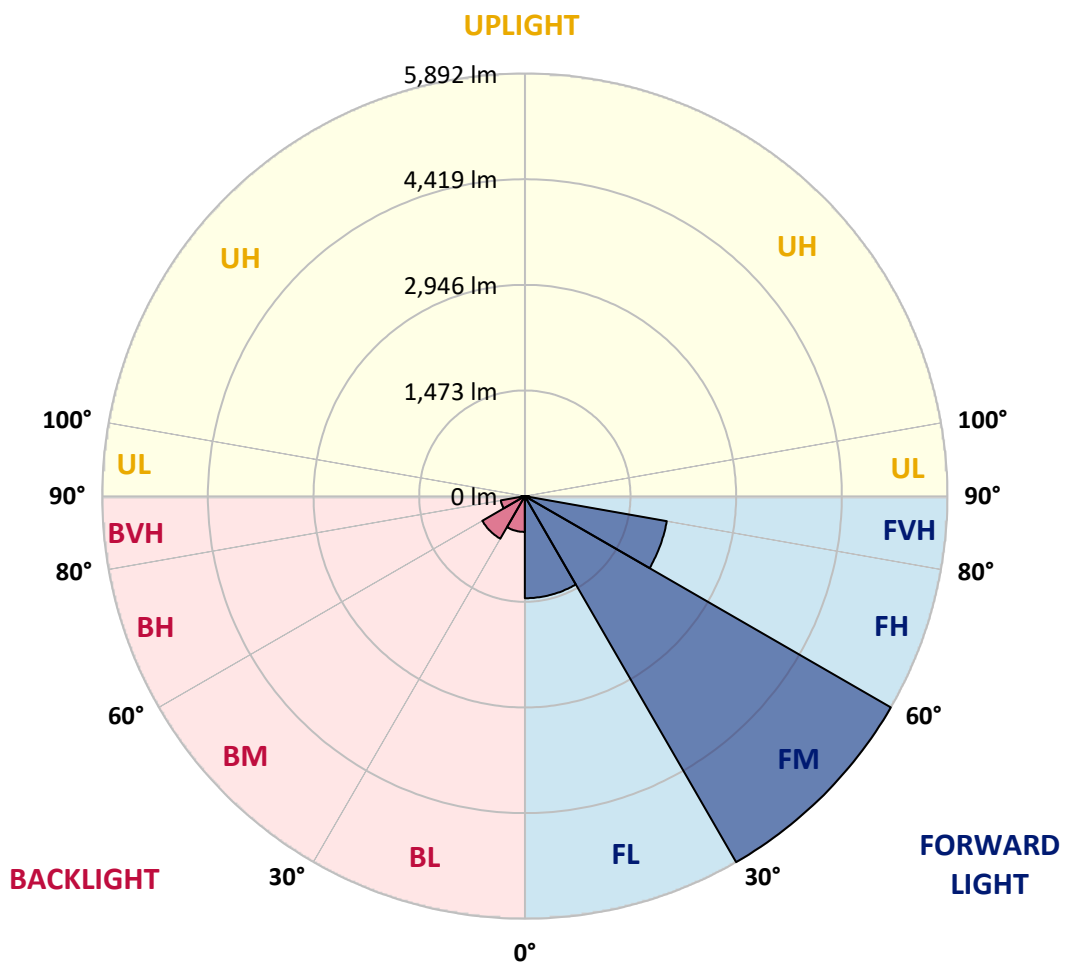
REPORT NUMBER: P672020
 CATALOG NUMBER: CCP-SA-2E-830-U-AFL

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1423.0	13.0			
FM (30°-60°)	5892.3	53.7			
FH (60°-80°)	2009.3	18.3			G2/5000
FVH (80°-90°)	63.3	0.6			G1/100
BL (0°-30°)	498.9	4.6	B1/500		
BM (30°-60°)	685.0	6.2	B1/1000		
BH (60°-80°)	340.1	3.1	B1/500		G1/500
BVH (80°-90°)	52.1	0.5			G1/100
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





REPORT NUMBER: P672020

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

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	2431.6	2431.6	2431.6	2431.6	2431.6	2431.6	2431.6	2431.6	2431.6	2431.6	2431.6
2.5°	2829.7	2819.4	2819.4	2793.1	2754.2	2700.2	2635.8	2619.9	2595.3	2532.5	2451.4
5°	3261.2	3250.0	3235.0	3188.9	3116.6	3008.5	2872.6	2848.0	2759.8	2630.2	2484.0
7.5°	3546.4	3540.1	3535.3	3495.6	3424.1	3317.6	3135.6	3107.8	2958.4	2743.9	2515.0
10°	3517.0	3536.1	3569.5	3597.3	3611.6	3556.8	3385.9	3353.4	3168.2	2875.8	2561.1
12.5°	3241.3	3268.3	3330.3	3443.9	3575.1	3680.7	3583.8	3565.5	3392.3	3015.6	2619.1
15°	3036.3	3047.4	3077.6	3161.8	3357.3	3639.4	3737.2	3720.5	3601.3	3195.2	2685.9
17.5°	2972.7	2977.5	2984.6	3012.5	3146.0	3478.1	3799.9	3815.8	3803.9	3382.0	2761.4
20°	3004.5	3007.7	3008.5	3013.2	3076.8	3343.0	3783.2	3810.3	3981.9	3568.7	2836.0
22.5°	3126.9	3122.9	3117.3	3099.1	3134.8	3319.2	3738.7	3781.7	4119.4	3738.7	2905.2
25°	3340.6	3335.1	3296.1	3258.0	3273.1	3405.0	3714.9	3761.0	4226.7	3899.3	2956.0
27.5°	3594.9	3589.4	3549.6	3477.3	3461.4	3548.0	3770.5	3799.1	4305.3	4041.5	2978.3
30°	3858.7	3858.7	3809.5	3726.0	3675.2	3711.7	3873.0	3896.1	4364.9	4179.0	2992.6
32.5°	4146.4	4154.3	4078.1	3982.7	3926.3	3904.8	4016.9	4036.7	4451.5	4341.1	3022.8
35°	4515.9	4498.4	4405.4	4279.9	4189.3	4140.8	4194.9	4217.9	4578.7	4542.9	3071.3
37.5°	4931.5	4900.5	4786.1	4635.9	4477.8	4396.7	4432.5	4438.0	4767.0	4805.9	3159.5
40°	5274.8	5269.2	5172.3	5030.0	4830.6	4721.7	4704.2	4707.4	5028.4	5117.4	3293.0
42.5°	5564.0	5543.4	5525.9	5475.8	5264.4	5085.7	5014.1	5014.9	5312.1	5439.3	3427.3
45°	5692.0	5688.0	5739.6	5868.4	5716.6	5506.0	5404.3	5418.6	5637.1	5769.8	3556.8
47.5°	5637.1	5640.3	5778.6	6116.3	6206.1	6044.8	5864.4	5855.7	5951.8	6023.3	3671.2
50°	5147.6	5199.3	5573.6	6139.3	6527.1	6607.4	6403.9	6371.4	6227.5	6225.2	3741.1
52.5°	4778.1	4775.7	5005.4	5904.9	6640.7	7115.1	6932.4	6859.3	6455.6	6338.8	3746.7
55°	4279.1	4275.9	4446.8	5219.2	6415.1	7469.6	7430.6	7339.2	6664.6	6376.1	3708.6
57.5°	3240.5	3300.9	3471.0	4178.2	5699.9	7413.1	7906.6	7830.3	6868.8	6359.4	3701.4
60°	1763.3	1756.1	2002.5	2723.2	4364.1	6772.7	8114.0	8110.0	7085.7	6353.1	3745.1
62.5°	812.9	805.0	854.2	1212.6	2502.3	5425.8	7713.5	7770.7	7286.8	6295.1	3741.1
65°	607.9	587.2	520.5	564.2	957.5	3238.9	6551.8	6704.3	6976.9	6056.7	3567.9
67.5°	541.9	522.1	444.2	416.4	480.8	1142.7	4752.7	4893.4	5834.2	5610.1	3287.4
70°	496.6	479.2	401.3	357.6	360.8	506.2	2488.0	2764.5	4275.9	4682.0	2801.9
72.5°	452.9	437.8	367.1	314.7	303.5	334.5	847.9	1022.7	2659.6	3412.2	2089.1
75°	406.9	392.5	330.6	282.1	260.6	247.9	403.7	434.7	1406.5	1884.1	1121.2
77.5°	353.6	345.7	294.8	248.7	230.4	187.5	268.6	282.1	602.3	739.8	534.0
80°	307.5	301.2	263.0	225.7	206.6	144.6	185.1	194.7	297.2	369.5	298.8
82.5°	200.2	216.1	217.7	193.9	182.0	116.0	122.4	129.5	197.1	217.7	130.3
85°	82.6	100.1	150.2	133.5	126.3	98.5	81.1	82.6	120.8	127.1	46.9
87.5°	37.3	41.3	73.9	74.7	65.2	37.3	40.5	44.5	62.0	61.2	20.7
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: P672020
 CATALOG NUMBER: CCP-SA-2E-830-U-AFL

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2431.6	2431.6	2431.6	2431.6	2431.6	2431.6	2431.6	2431.6	2431.6	2431.6	2431.6
2.5°	2429.2	2392.6	2327.5	2244.0	2184.4	2140.7	2093.1	2058.1	2019.2	1985.0	1990.6
5°	2423.6	2352.9	2206.7	2051.7	1900.8	1776.8	1673.5	1597.2	1518.5	1487.6	1483.6
7.5°	2428.4	2308.4	2068.4	1814.9	1585.3	1427.2	1307.2	1234.9	1189.6	1163.3	1164.9
10°	2426.8	2266.3	1919.0	1569.4	1318.3	1173.7	1100.6	1076.7	1072.8	1075.9	1080.7
12.5°	2429.2	2209.1	1751.4	1348.5	1126.8	1052.9	1056.1	1077.5	1091.0	1099.8	1105.3
15°	2439.5	2162.2	1579.7	1174.5	1026.7	1029.0	1063.2	1096.6	1116.5	1126.0	1130.8
17.5°	2454.6	2103.4	1427.2	1042.6	984.6	1021.1	1065.6	1101.4	1116.5	1122.0	1126.0
20°	2456.2	2035.9	1273.0	952.0	956.7	1004.4	1043.4	1072.0	1091.0	1097.4	1100.6
22.5°	2449.1	1944.5	1114.9	886.0	925.0	972.6	1006.0	1038.6	1013.2	992.5	986.9
25°	2418.9	1829.2	979.8	832.0	885.2	929.7	967.9	932.1	920.2	904.3	905.9
27.5°	2353.7	1685.4	852.6	781.1	838.3	901.9	874.1	869.3	854.2	838.3	838.3
30°	2267.9	1533.6	746.2	727.9	781.9	813.7	820.1	812.9	804.2	783.5	785.1
32.5°	2190.8	1373.1	670.7	683.4	746.2	746.2	774.0	774.0	742.2	684.2	684.2
35°	2114.5	1222.1	615.0	646.0	687.4	700.9	739.0	688.9	643.7	617.4	615.8
37.5°	2054.9	1093.4	578.5	614.3	630.1	664.3	665.1	628.6	613.5	589.6	587.2
40°	2020.0	985.3	556.2	598.4	599.9	631.7	579.3	589.6	586.4	568.2	565.8
42.5°	2000.9	901.9	539.6	584.9	576.9	545.9	536.4	553.9	559.4	549.9	545.9
45°	1985.8	836.7	526.0	538.0	558.6	502.2	498.2	511.7	523.7	522.9	519.7
47.5°	1977.8	791.5	514.1	508.6	512.5	476.0	468.0	474.4	489.5	499.0	498.2
50°	1946.9	756.5	496.6	478.4	452.9	452.9	449.0	449.0	467.2	486.3	487.9
52.5°	1892.0	715.2	471.2	449.8	420.4	433.1	434.7	431.5	450.6	471.2	472.8
55°	1831.6	684.2	437.0	423.5	393.3	414.8	422.0	418.8	431.5	445.8	445.0
57.5°	1832.4	683.4	407.6	397.3	367.9	391.8	409.2	410.0	409.2	419.6	419.6
60°	1878.5	699.3	384.6	362.4	338.5	367.1	395.7	395.7	390.2	405.3	406.9
62.5°	1892.0	697.7	370.3	329.0	312.3	344.9	375.9	380.6	376.7	398.1	400.5
65°	1772.8	660.3	356.0	298.8	288.5	320.2	351.2	364.7	360.8	388.6	391.8
67.5°	1607.5	611.9	333.7	271.8	263.8	296.4	325.8	340.1	339.3	375.9	377.5
70°	1385.8	552.3	305.9	244.0	240.0	268.6	294.8	309.9	317.1	359.2	358.4
72.5°	1073.5	473.6	263.8	214.6	213.8	240.0	263.0	279.7	293.2	333.7	333.7
75°	692.1	372.7	215.3	185.9	182.8	207.4	231.2	250.3	291.6	356.0	355.2
77.5°	422.7	284.5	173.2	155.0	154.2	176.4	200.2	232.8	318.6	317.1	308.3
80°	253.5	204.2	138.3	124.0	124.0	144.6	170.8	249.5	264.6	302.0	285.3
82.5°	131.9	125.6	103.3	91.4	95.4	113.6	155.7	199.5	216.1	183.6	168.5
85°	54.0	66.7	63.6	58.0	60.4	78.7	150.2	159.7	127.9	134.3	135.1
87.5°	18.3	29.4	29.4	23.0	25.4	55.6	89.0	53.2	64.4	38.1	28.6
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)