

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: P671942

Luminaire Tested: **CCP-SA-2D-727-U-AFL**

Issue Date: 04/16/2023



Test Information

Test Method: LM-79-08
Report Number: P671942
Test Lab: INNOVATION CENTER(G2)
Issue Date: 04/16/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCP-SA-2D-727-U-AFL
Description: INVUE CLEAR CURVE POLE MOUNT LIGHT SQUARE LUMINAIRE @800mA w/ AFL distribution lens
Light Source: (32) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

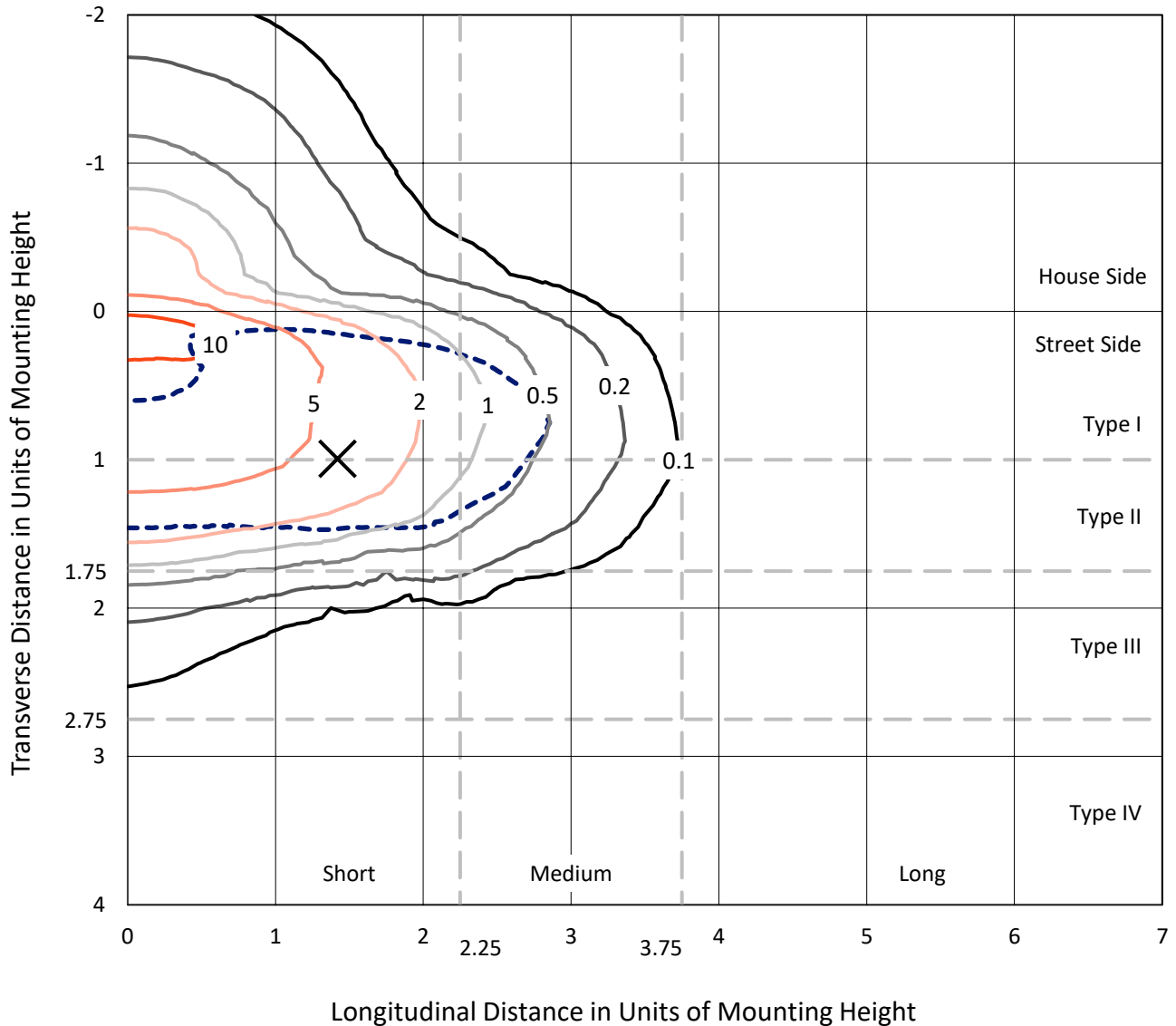
Lumens per Lamp: N/A
Luminaire Lumens: 9412.4 lumens
Efficiency: N/A
Efficacy: 116.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

Input Watts (W): 80.8
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

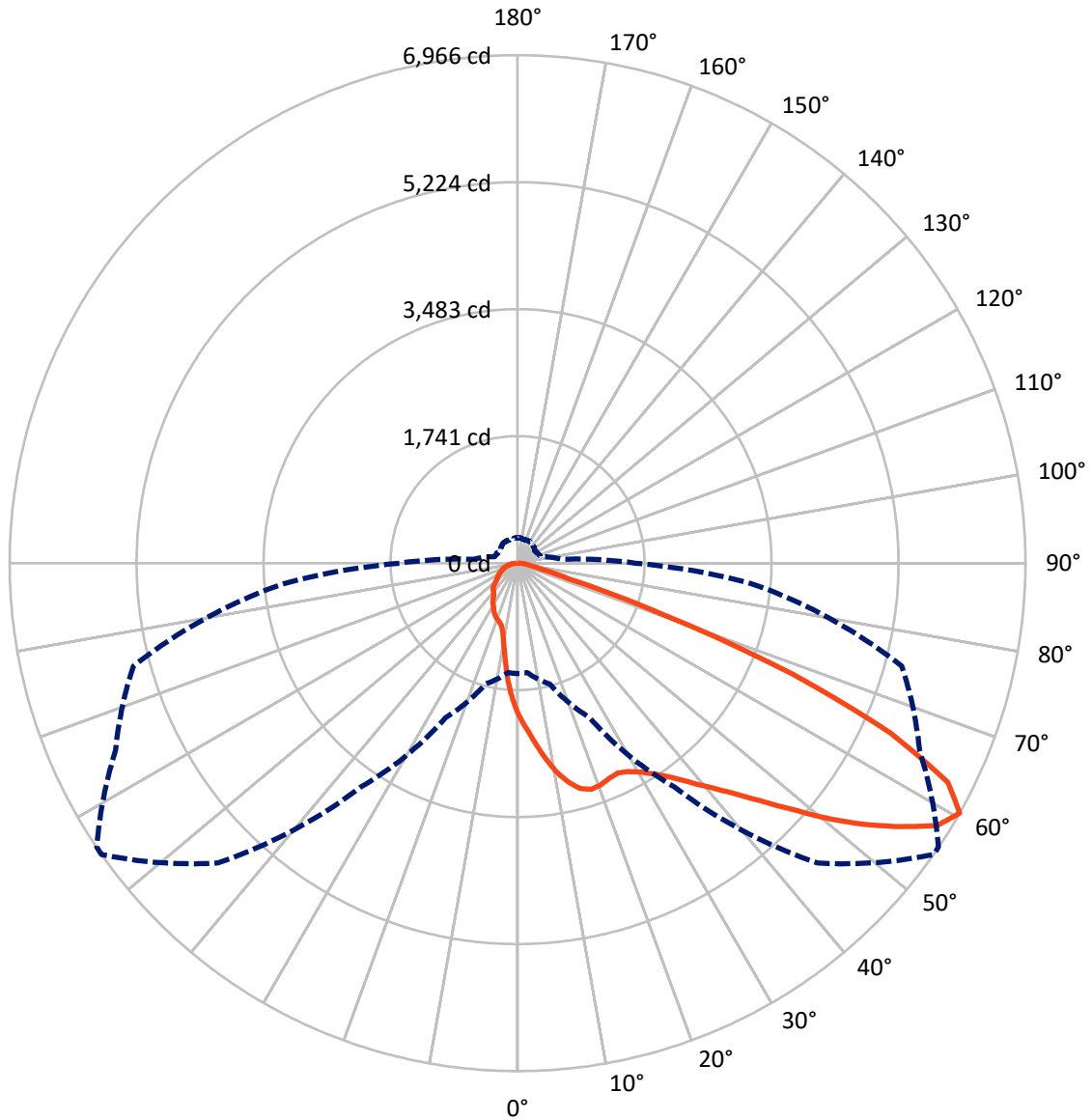
✕ Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 13.1 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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

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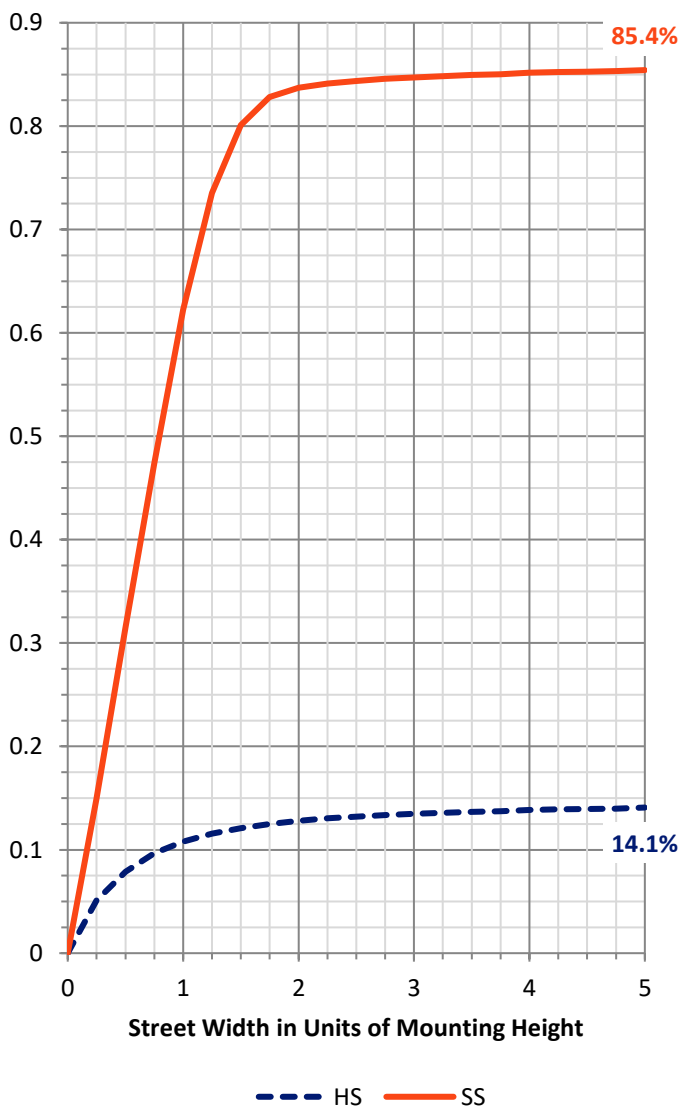
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1353.1	0.0	1353.1
	% Fixture	14.4	0.0	14.4
Street Side	Lumens	8059.4	0.0	8059.4
	% Fixture	85.6	0.0	85.6
Total	Lumens	9412.4	0.0	9412.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	195.4	2.1
10°-20°	553.4	5.9
20°-30°	901.1	9.6
30°-40°	1346.9	14.3
40°-50°	1979.5	21.0
50°-60°	2320.1	24.6
60°-70°	1529.8	16.3
70°-80°	487.1	5.2
80°-90°	99.0	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°	9412.4	100.0
0°-180°	9412.4	100.0



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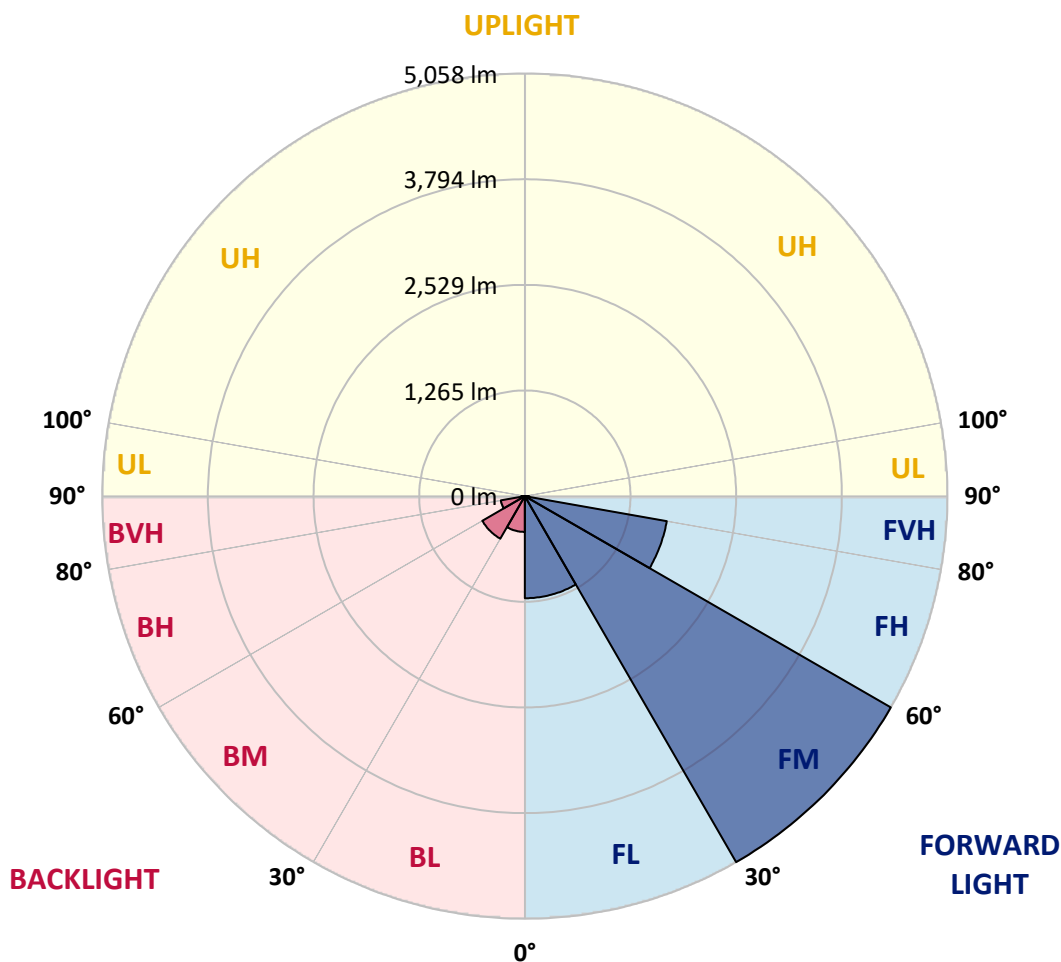
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1221.6	13.0			
FM (30°-60°)	5058.5	53.7			
FH (60°-80°)	1724.9	18.3			G1/1800
FVH (80°-90°)	54.3	0.6			G1/100
BL (0°-30°)	428.3	4.6	B1/500		
BM (30°-60°)	588.1	6.2	B1/1000		
BH (60°-80°)	292.0	3.1	B1/500		G1/500
BVH (80°-90°)	44.7	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-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	2087.5	2087.5	2087.5	2087.5	2087.5	2087.5	2087.5	2087.5	2087.5	2087.5	2087.5
2.5°	2429.2	2420.4	2420.4	2397.9	2364.4	2318.0	2262.8	2249.1	2228.0	2174.1	2104.5
5°	2799.7	2790.1	2777.1	2737.6	2675.5	2582.7	2466.1	2444.9	2369.2	2258.0	2132.5
7.5°	3044.6	3039.1	3035.0	3000.9	2939.5	2848.1	2691.9	2668.0	2539.7	2355.6	2159.1
10°	3019.3	3035.7	3064.3	3088.2	3100.5	3053.4	2906.8	2878.8	2719.8	2468.8	2198.7
12.5°	2782.6	2805.8	2859.0	2956.6	3069.1	3159.8	3076.6	3060.9	2912.2	2588.9	2248.5
15°	2606.6	2616.2	2642.1	2714.4	2882.2	3124.4	3208.3	3194.0	3091.6	2743.0	2305.8
17.5°	2552.0	2556.1	2562.3	2586.1	2700.7	2985.9	3262.2	3275.8	3265.6	2903.3	2370.6
20°	2579.3	2582.0	2582.7	2586.8	2641.4	2869.9	3247.8	3271.0	3418.4	3063.7	2434.7
22.5°	2684.4	2681.0	2676.2	2660.5	2691.2	2849.5	3209.6	3246.5	3536.4	3209.6	2494.0
25°	2867.9	2863.1	2829.7	2796.9	2809.9	2923.1	3189.2	3228.7	3628.5	3347.4	2537.7
27.5°	3086.2	3081.4	3047.3	2985.2	2971.6	3045.9	3236.9	3261.5	3696.0	3469.6	2556.8
30°	3312.7	3312.7	3270.4	3198.7	3155.1	3186.5	3324.9	3344.7	3747.2	3587.6	2569.1
32.5°	3559.6	3566.4	3500.9	3419.1	3370.6	3352.2	3448.4	3465.5	3821.6	3726.7	2595.0
35°	3876.8	3861.8	3782.0	3674.2	3596.4	3554.8	3601.2	3621.0	3930.7	3900.0	2636.6
37.5°	4233.6	4207.0	4108.8	3979.8	3844.1	3774.5	3805.2	3810.0	4092.4	4125.8	2712.3
40°	4528.3	4523.5	4440.3	4318.2	4147.0	4053.5	4038.5	4041.2	4316.8	4393.2	2826.9
42.5°	4776.6	4758.9	4743.9	4700.9	4519.4	4365.9	4304.5	4305.2	4560.4	4669.5	2942.2
45°	4886.4	4883.0	4927.4	5037.9	4907.6	4726.8	4639.5	4651.8	4839.4	4953.3	3053.4
47.5°	4839.4	4842.1	4960.8	5250.7	5327.8	5189.3	5034.5	5027.0	5109.5	5170.9	3151.7
50°	4419.1	4463.5	4784.8	5270.5	5603.4	5672.3	5497.7	5469.7	5346.2	5344.2	3211.7
52.5°	4101.9	4099.9	4297.0	5069.3	5701.0	6108.2	5951.3	5888.6	5542.0	5441.7	3216.5
55°	3673.5	3670.8	3817.5	4480.5	5507.2	6412.5	6379.0	6300.6	5721.4	5473.8	3183.7
57.5°	2781.9	2833.8	2979.8	3586.9	4893.3	6364.0	6787.7	6722.2	5896.7	5459.5	3177.6
60°	1513.8	1507.6	1719.1	2337.8	3746.5	5814.2	6965.7	6962.3	6083.0	5454.0	3215.1
62.5°	697.9	691.0	733.3	1041.0	2148.2	4657.9	6621.9	6671.0	6255.6	5404.2	3211.7
65°	521.9	504.1	446.8	484.3	822.0	2780.6	5624.6	5755.5	5989.5	5199.6	3063.0
67.5°	465.2	448.2	381.3	357.5	412.7	981.0	4080.1	4200.9	5008.6	4816.2	2822.2
70°	426.4	411.4	344.5	307.0	309.7	434.5	2135.9	2373.3	3670.8	4019.4	2405.4
72.5°	388.8	375.9	315.2	270.1	260.6	287.2	727.9	878.0	2283.2	2929.3	1793.4
75°	349.3	337.0	283.8	242.2	223.8	212.8	346.5	373.2	1207.5	1617.4	962.6
77.5°	303.6	296.7	253.1	213.5	197.8	161.0	230.6	242.2	517.1	635.1	458.4
80°	264.0	258.5	225.8	193.7	177.4	124.2	158.9	167.1	255.1	317.2	256.5
82.5°	171.9	185.6	186.9	166.5	156.2	99.6	105.1	111.2	169.2	186.9	111.9
85°	70.9	86.0	128.9	114.6	108.5	84.6	69.6	70.9	103.7	109.1	40.2
87.5°	32.1	35.5	63.4	64.1	55.9	32.1	34.8	38.2	53.2	52.5	17.7
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°	2087.5	2087.5	2087.5	2087.5	2087.5	2087.5	2087.5	2087.5	2087.5	2087.5	2087.5
2.5°	2085.4	2054.0	1998.1	1926.5	1875.3	1837.8	1796.9	1766.8	1733.4	1704.1	1708.9
5°	2080.6	2019.9	1894.4	1761.4	1631.8	1525.4	1436.7	1371.2	1303.6	1277.0	1273.6
7.5°	2084.7	1981.7	1775.7	1558.1	1360.9	1225.2	1122.2	1060.1	1021.2	998.7	1000.1
10°	2083.4	1945.6	1647.5	1347.3	1131.7	1007.6	944.8	924.4	920.9	923.7	927.8
12.5°	2085.4	1896.5	1503.5	1157.7	967.3	903.9	906.6	925.0	936.6	944.1	948.9
15°	2094.3	1856.2	1356.2	1008.3	881.4	883.4	912.8	941.4	958.5	966.6	970.7
17.5°	2107.2	1805.7	1225.2	895.0	845.2	876.6	914.8	945.5	958.5	963.2	966.6
20°	2108.6	1747.7	1092.8	817.2	821.3	862.3	895.7	920.3	936.6	942.1	944.8
22.5°	2102.5	1669.3	957.1	760.6	794.1	835.0	863.6	891.6	869.8	852.0	847.3
25°	2076.5	1570.4	841.1	714.2	759.9	798.1	830.9	800.2	790.0	776.3	777.7
27.5°	2020.6	1446.9	732.0	670.6	719.7	774.3	750.4	746.3	733.3	719.7	719.7
30°	1946.9	1316.6	640.6	624.9	671.3	698.6	704.0	697.9	690.4	672.6	674.0
32.5°	1880.8	1178.8	575.8	586.7	640.6	640.6	664.4	664.4	637.2	587.4	587.4
35°	1815.3	1049.2	528.0	554.6	590.1	601.7	634.4	591.4	552.6	530.1	528.7
37.5°	1764.1	938.7	496.6	527.3	541.0	570.3	571.0	539.6	526.6	506.2	504.1
40°	1734.1	845.9	477.5	513.7	515.0	542.3	497.3	506.2	503.4	487.8	485.7
42.5°	1717.7	774.3	463.2	502.1	495.3	468.7	460.5	475.5	480.3	472.1	468.7
45°	1704.8	718.3	451.6	461.8	479.6	431.1	427.7	439.3	449.6	448.9	446.1
47.5°	1697.9	679.4	441.4	436.6	440.0	408.6	401.8	407.3	420.2	428.4	427.7
50°	1671.3	649.4	426.4	410.7	388.8	388.8	385.4	385.4	401.1	417.5	418.9
52.5°	1624.3	614.0	404.5	386.1	360.9	371.8	373.2	370.4	386.8	404.5	405.9
55°	1572.4	587.4	375.2	363.6	337.7	356.1	362.2	359.5	370.4	382.7	382.0
57.5°	1573.1	586.7	350.0	341.1	315.8	336.3	351.3	352.0	351.3	360.2	360.2
60°	1612.7	600.3	330.2	311.1	290.6	315.2	339.7	339.7	334.9	347.9	349.3
62.5°	1624.3	599.0	317.9	282.4	268.1	296.1	322.7	326.8	323.4	341.8	343.8
65°	1521.9	566.9	305.6	256.5	247.6	274.9	301.5	313.1	309.7	333.6	336.3
67.5°	1380.0	525.3	286.5	233.3	226.5	254.5	279.7	292.0	291.3	322.7	324.0
70°	1189.7	474.1	262.6	209.4	206.0	230.6	253.1	266.0	272.2	308.3	307.7
72.5°	921.6	406.6	226.5	184.2	183.5	206.0	225.8	240.1	251.7	286.5	286.5
75°	594.2	319.9	184.9	159.6	156.9	178.0	198.5	214.9	250.4	305.6	304.9
77.5°	362.9	244.2	148.7	133.0	132.3	151.4	171.9	199.9	273.6	272.2	264.7
80°	217.6	175.3	118.7	106.4	106.4	124.2	146.7	214.2	227.2	259.2	244.9
82.5°	113.2	107.8	88.7	78.5	81.9	97.6	133.7	171.2	185.6	157.6	144.6
85°	46.4	57.3	54.6	49.8	51.8	67.5	128.9	137.1	109.8	115.3	116.0
87.5°	15.7	25.2	25.2	19.8	21.8	47.8	76.4	45.7	55.3	32.7	24.6
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)