

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: P672053

Luminaire Tested: **CCP-SA-2E-850-U-AFL**

Issue Date: 04/16/2023



Test Information

Test Method: LM-79-08
Report Number: P672053
Test Lab: INNOVATION CENTER(G2)
Issue Date: 04/16/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCP-SA-2E-850-U-AFL
Description: INVUE CLEAR CURVE POLE MOUNT LIGHT SQUARE LUMINAIRE @1050mA w/ AFL distribution lens
Light Source: (32) 5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

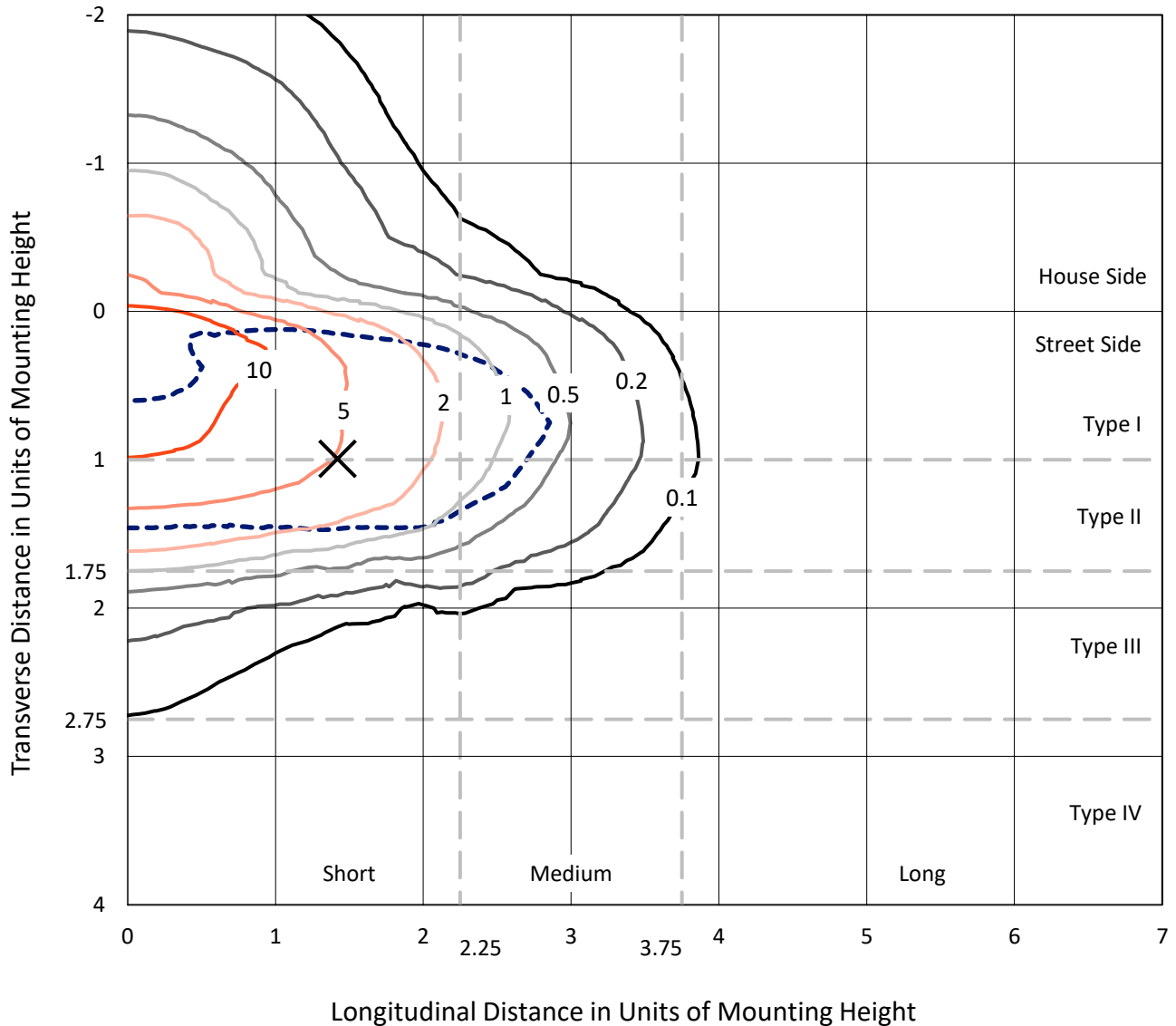
Lumens per Lamp: N/A
Luminaire Lumens: 12040.3 lumens
Efficiency: N/A
Efficacy: 112.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

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

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Iso-Footcandle Lines of Horizontal Illumination

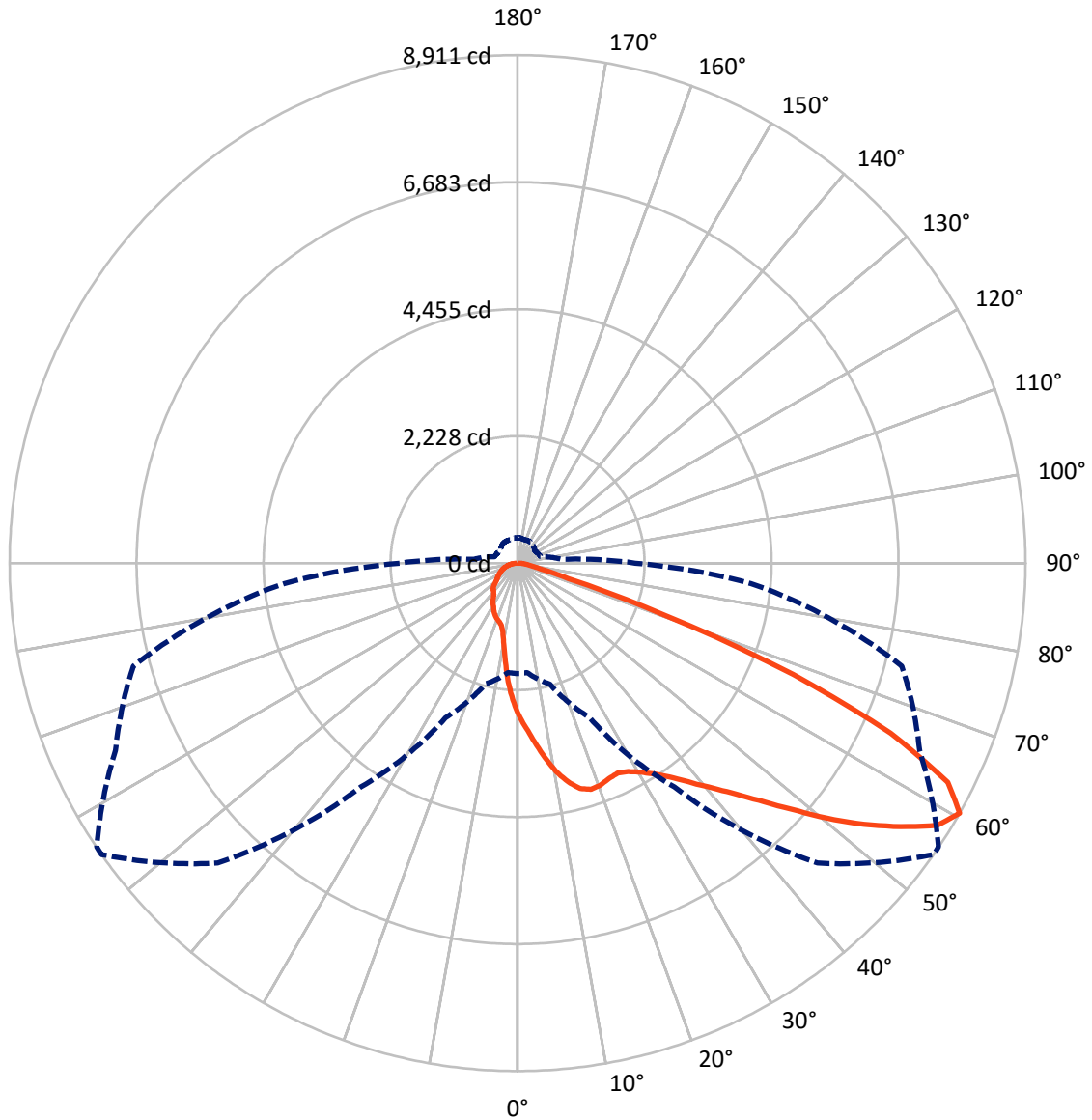
✕ Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 16.7 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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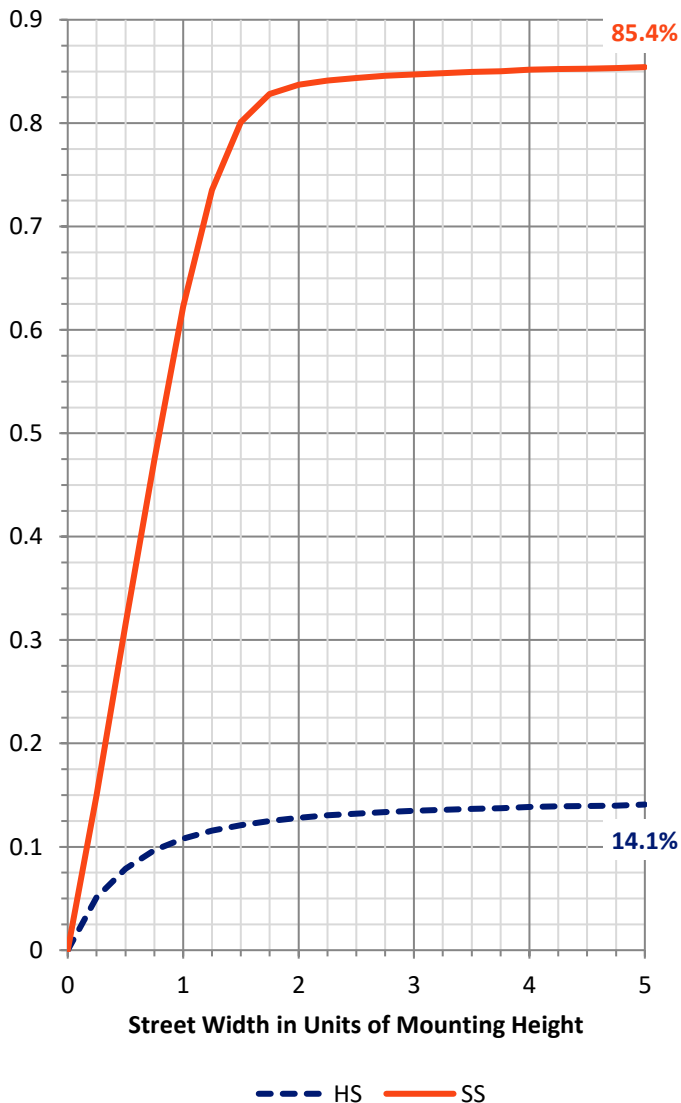
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1730.8	0.0	1730.8
	% Fixture	14.4	0.0	14.4
Street Side	Lumens	10309.5	0.0	10309.5
	% Fixture	85.6	0.0	85.6
Total	Lumens	12040.3	0.0	12040.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	249.9	2.1
10°-20°	708.0	5.9
20°-30°	1152.7	9.6
30°-40°	1722.9	14.3
40°-50°	2532.2	21.0
50°-60°	2967.9	24.6
60°-70°	1956.9	16.3
70°-80°	623.1	5.2
80°-90°	126.7	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°	12040.3	100.0
0°-180°	12040.3	100.0



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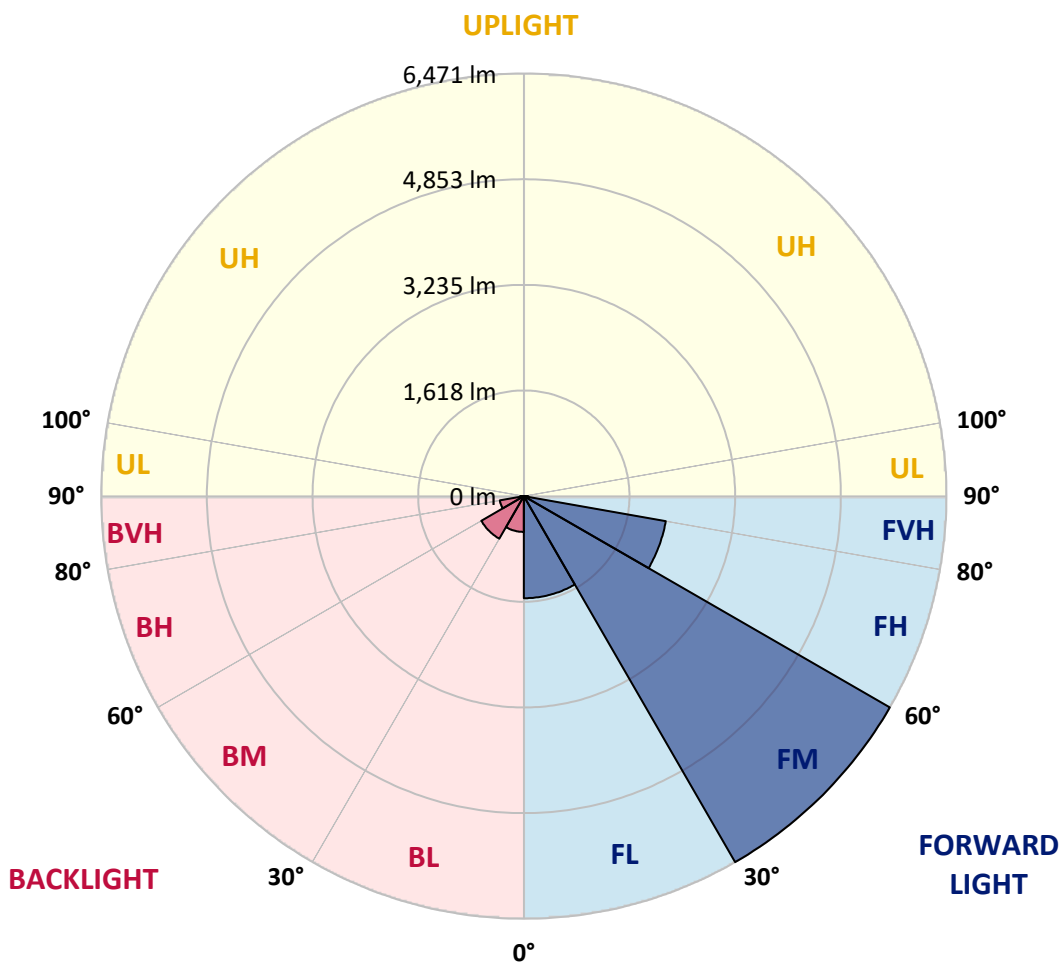
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1562.7	13.0			
FM (30°-60°)	6470.7	53.7			
FH (60°-80°)	2206.5	18.3			G2/5000
FVH (80°-90°)	69.5	0.6			G1/100
BL (0°-30°)	547.9	4.6	B2/1000		
BM (30°-60°)	752.3	6.2	B1/1000		
BH (60°-80°)	373.5	3.1	B1/500		G1/500
BVH (80°-90°)	57.2	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	2670.3	2670.3	2670.3	2670.3	2670.3	2670.3	2670.3	2670.3	2670.3	2670.3	2670.3
2.5°	3107.5	3096.1	3096.1	3067.3	3024.6	2965.2	2894.5	2877.1	2850.0	2781.1	2692.1
5°	3581.3	3569.1	3552.5	3501.9	3422.5	3303.8	3154.6	3127.5	3030.7	2888.4	2727.9
7.5°	3894.6	3887.6	3882.4	3838.7	3760.2	3643.3	3443.4	3412.9	3248.8	3013.2	2761.9
10°	3862.3	3883.2	3919.9	3950.4	3966.1	3905.9	3718.3	3682.5	3479.2	3158.1	2812.5
12.5°	3559.5	3589.2	3657.2	3782.0	3926.0	4042.1	3935.6	3915.5	3725.3	3311.7	2876.2
15°	3334.3	3346.6	3379.7	3472.2	3686.9	3996.7	4104.0	4085.7	3954.8	3508.9	2949.5
17.5°	3264.5	3269.8	3277.6	3308.2	3454.8	3819.5	4172.9	4190.4	4177.3	3713.9	3032.4
20°	3299.4	3302.9	3303.8	3309.0	3378.8	3671.2	4154.6	4184.3	4372.8	3919.0	3114.4
22.5°	3433.8	3429.5	3423.4	3403.3	3442.6	3645.0	4105.8	4152.9	4523.7	4105.8	3190.4
25°	3668.6	3662.5	3619.7	3577.8	3594.4	3739.2	4079.6	4130.2	4641.6	4282.0	3246.2
27.5°	3947.8	3941.7	3898.1	3818.7	3801.2	3896.3	4140.7	4172.1	4727.9	4438.2	3270.6
30°	4237.5	4237.5	4183.4	4091.8	4035.9	4076.1	4253.2	4278.5	4793.4	4589.2	3286.3
32.5°	4553.4	4562.1	4478.4	4373.7	4311.7	4288.1	4411.2	4433.0	4888.5	4767.2	3319.5
35°	4959.2	4940.0	4837.9	4700.0	4600.5	4547.3	4606.6	4632.0	5028.1	4988.9	3372.7
37.5°	5415.6	5381.5	5255.9	5091.0	4917.3	4828.3	4867.6	4873.7	5234.9	5277.7	3469.6
40°	5792.6	5786.5	5680.0	5523.8	5304.8	5185.2	5166.0	5169.5	5522.0	5619.8	3616.2
42.5°	6110.2	6087.5	6068.3	6013.3	5781.2	5584.9	5506.3	5507.2	5833.6	5973.2	3763.7
45°	6250.7	6246.3	6303.1	6444.4	6277.7	6046.5	5934.8	5950.5	6190.5	6336.2	3905.9
47.5°	6190.5	6194.0	6345.8	6716.7	6815.3	6638.1	6440.1	6430.5	6536.0	6614.6	4031.6
50°	5652.9	5709.7	6120.7	6742.0	7167.8	7256.0	7032.6	6996.8	6838.9	6836.2	4108.4
52.5°	5247.2	5244.5	5496.7	6484.6	7292.6	7813.6	7612.9	7532.6	7089.3	6961.0	4114.5
55°	4699.1	4695.7	4883.3	5731.5	7044.8	8202.8	8160.0	8059.7	7318.8	7002.0	4072.6
57.5°	3558.6	3624.9	3811.7	4588.3	6259.4	8140.8	8682.7	8599.0	7543.1	6983.7	4064.7
60°	1936.4	1928.5	2199.0	2990.5	4792.5	7437.5	8910.5	8906.1	7781.3	6976.7	4112.7
62.5°	892.7	884.0	938.1	1331.6	2747.9	5958.4	8470.7	8533.5	8002.1	6913.0	4108.4
65°	667.6	644.9	571.6	619.6	1051.5	3556.9	7194.9	7362.4	7661.7	6651.2	3918.1
67.5°	595.1	573.3	487.8	457.3	527.9	1254.9	5219.2	5373.7	6406.9	6160.8	3610.1
70°	545.4	526.2	440.7	392.7	396.2	555.9	2732.2	3035.9	4695.7	5141.6	3076.9
72.5°	497.4	480.8	403.2	345.6	333.3	367.4	931.1	1123.1	2920.7	3747.1	2294.2
75°	446.8	431.1	363.0	309.8	286.2	272.3	443.3	477.3	1544.6	2069.0	1231.3
77.5°	388.3	379.6	323.7	273.1	253.1	205.9	295.0	309.8	661.5	812.4	586.4
80°	337.7	330.7	288.8	247.8	226.9	158.8	203.3	213.8	326.4	405.8	328.1
82.5°	219.9	237.4	239.1	212.9	199.8	127.4	134.4	142.2	216.4	239.1	143.1
85°	90.8	110.0	164.9	146.6	138.7	108.2	89.0	90.8	132.6	139.6	51.5
87.5°	41.0	45.4	81.2	82.0	71.6	41.0	44.5	48.9	68.1	67.2	22.7
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°	2670.3	2670.3	2670.3	2670.3	2670.3	2670.3	2670.3	2670.3	2670.3	2670.3	2670.3
2.5°	2667.6	2627.5	2556.0	2464.3	2398.9	2350.9	2298.5	2260.1	2217.4	2179.8	2186.0
5°	2661.5	2583.9	2423.3	2253.1	2087.3	1951.2	1837.8	1754.0	1667.6	1633.6	1629.2
7.5°	2666.8	2535.0	2271.5	1993.1	1740.9	1567.3	1435.5	1356.1	1306.3	1277.5	1279.3
10°	2665.0	2488.8	2107.4	1723.5	1447.7	1288.9	1208.6	1182.4	1178.1	1181.5	1186.8
12.5°	2667.6	2425.9	1923.3	1480.9	1237.4	1156.2	1159.7	1183.3	1198.1	1207.7	1213.8
15°	2679.0	2374.4	1734.8	1289.8	1127.4	1130.1	1167.6	1204.2	1226.1	1236.5	1241.8
17.5°	2695.6	2309.9	1567.3	1144.9	1081.2	1121.3	1170.2	1209.5	1226.1	1232.2	1236.5
20°	2697.3	2235.7	1398.0	1045.4	1050.7	1103.0	1145.8	1177.2	1198.1	1205.1	1208.6
22.5°	2689.5	2135.3	1224.3	973.0	1015.7	1068.1	1104.8	1140.5	1112.6	1089.9	1083.8
25°	2656.3	2008.8	1076.0	913.7	972.1	1021.0	1062.9	1023.6	1010.5	993.1	994.8
27.5°	2584.7	1850.9	936.3	857.8	920.6	990.4	959.9	954.7	938.1	920.6	920.6
30°	2490.5	1684.2	819.4	799.3	858.7	893.6	900.6	892.7	883.1	860.4	862.2
32.5°	2405.9	1507.9	736.5	750.5	819.4	819.4	849.9	849.9	815.0	751.3	751.3
35°	2322.1	1342.1	675.4	709.5	754.8	769.7	811.6	756.6	706.8	678.0	676.3
37.5°	2256.6	1200.7	635.3	674.5	692.0	729.5	730.4	690.3	673.7	647.5	644.9
40°	2218.2	1082.1	610.8	657.1	658.8	693.7	636.2	647.5	644.0	623.9	621.3
42.5°	2197.3	990.4	592.5	642.3	633.5	599.5	589.0	608.2	614.3	603.9	599.5
45°	2180.7	918.9	577.7	590.8	613.5	551.5	547.1	562.0	575.1	574.2	570.7
47.5°	2172.0	869.1	564.6	558.5	562.9	522.7	514.0	521.0	537.5	548.0	547.1
50°	2138.0	830.7	545.4	525.3	497.4	497.4	493.0	493.0	513.1	534.1	535.8
52.5°	2077.7	785.4	517.5	493.9	461.6	475.6	477.3	473.8	494.8	517.5	519.2
55°	2011.4	751.3	480.0	465.1	432.0	455.5	463.4	459.9	473.8	489.5	488.7
57.5°	2012.3	750.5	447.7	436.3	404.0	430.2	449.4	450.3	449.4	460.8	460.8
60°	2062.9	767.9	422.4	397.9	371.7	403.2	434.6	434.6	428.5	445.0	446.8
62.5°	2077.7	766.2	406.6	361.3	342.9	378.7	412.8	418.0	413.6	437.2	439.8
65°	1946.9	725.2	390.9	328.1	316.8	351.7	385.7	400.5	396.2	426.7	430.2
67.5°	1765.3	671.9	366.5	298.4	289.7	325.5	357.8	373.5	372.6	412.8	414.5
70°	1521.9	606.5	336.0	267.9	263.5	295.0	323.7	340.3	348.2	394.4	393.6
72.5°	1178.9	520.1	289.7	235.6	234.7	263.5	288.8	307.2	322.0	366.5	366.5
75°	760.1	409.3	236.5	204.2	200.7	227.8	253.9	274.9	320.3	390.9	390.1
77.5°	464.2	312.4	190.2	170.2	169.3	193.7	219.9	255.7	349.9	348.2	338.6
80°	278.4	224.3	151.8	136.1	136.1	158.8	187.6	274.0	290.6	331.6	313.3
82.5°	144.9	137.9	113.4	100.4	104.7	124.8	171.0	219.0	237.4	201.6	185.0
85°	59.3	73.3	69.8	63.7	66.3	86.4	164.9	175.4	140.5	147.5	148.3
87.5°	20.1	32.3	32.3	25.3	27.9	61.1	97.7	58.5	70.7	41.9	31.4
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)