

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: P672008

Luminaire Tested: **CCP-SA-2D-827-U-AFL**

Issue Date: 04/16/2023



Test Information

Test Method: LM-79-08
Report Number: P672008
Test Lab: INNOVATION CENTER(G2)
Issue Date: 04/16/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCP-SA-2D-827-U-AFL
Description: INVUE CLEAR CURVE POLE MOUNT LIGHT SQUARE LUMINAIRE @800mA w/ AFL distribution lens
Light Source: (32) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

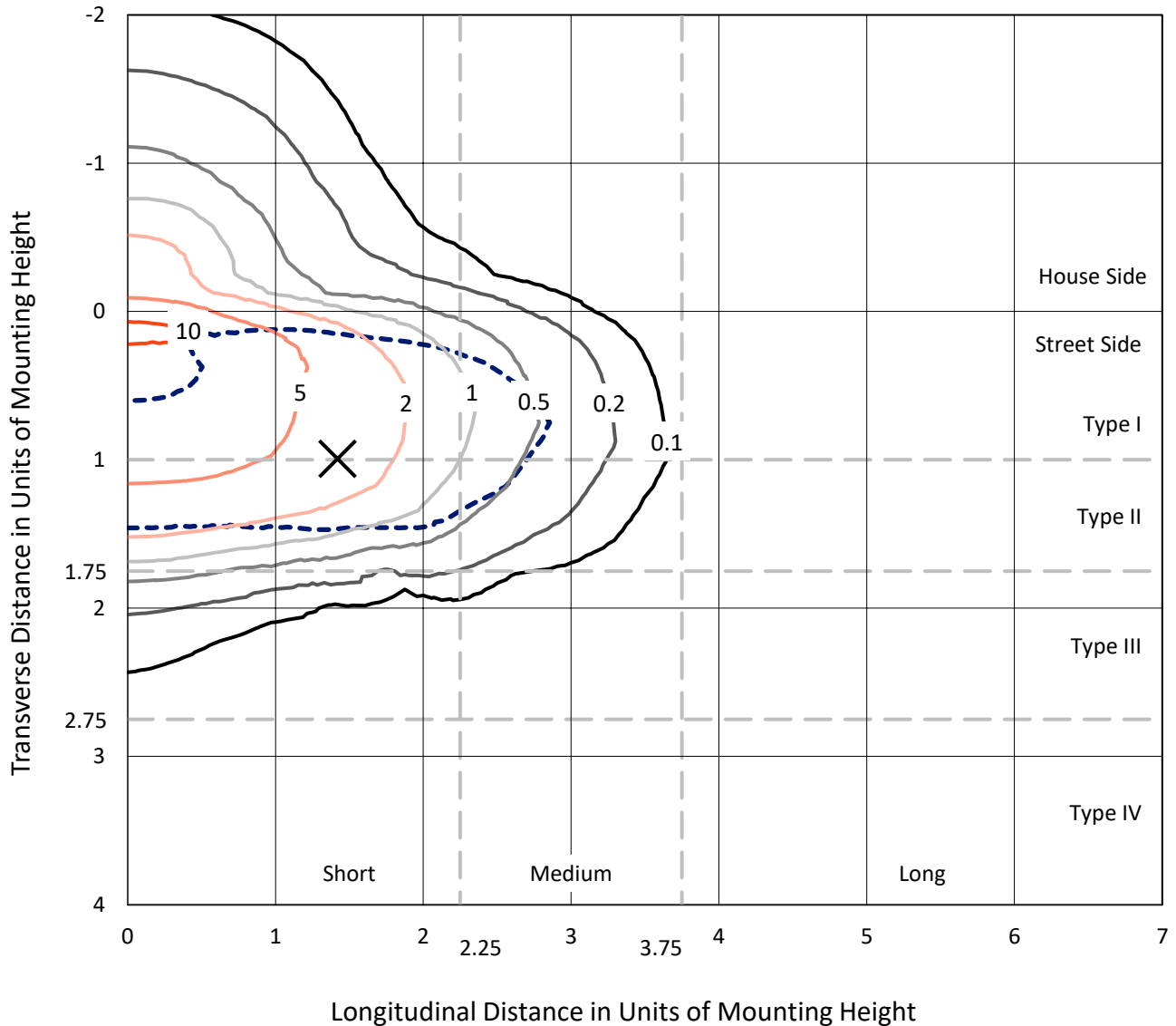
Lumens per Lamp: N/A
Luminaire Lumens: 8273.4 lumens
Efficiency: N/A
Efficacy: 102.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

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

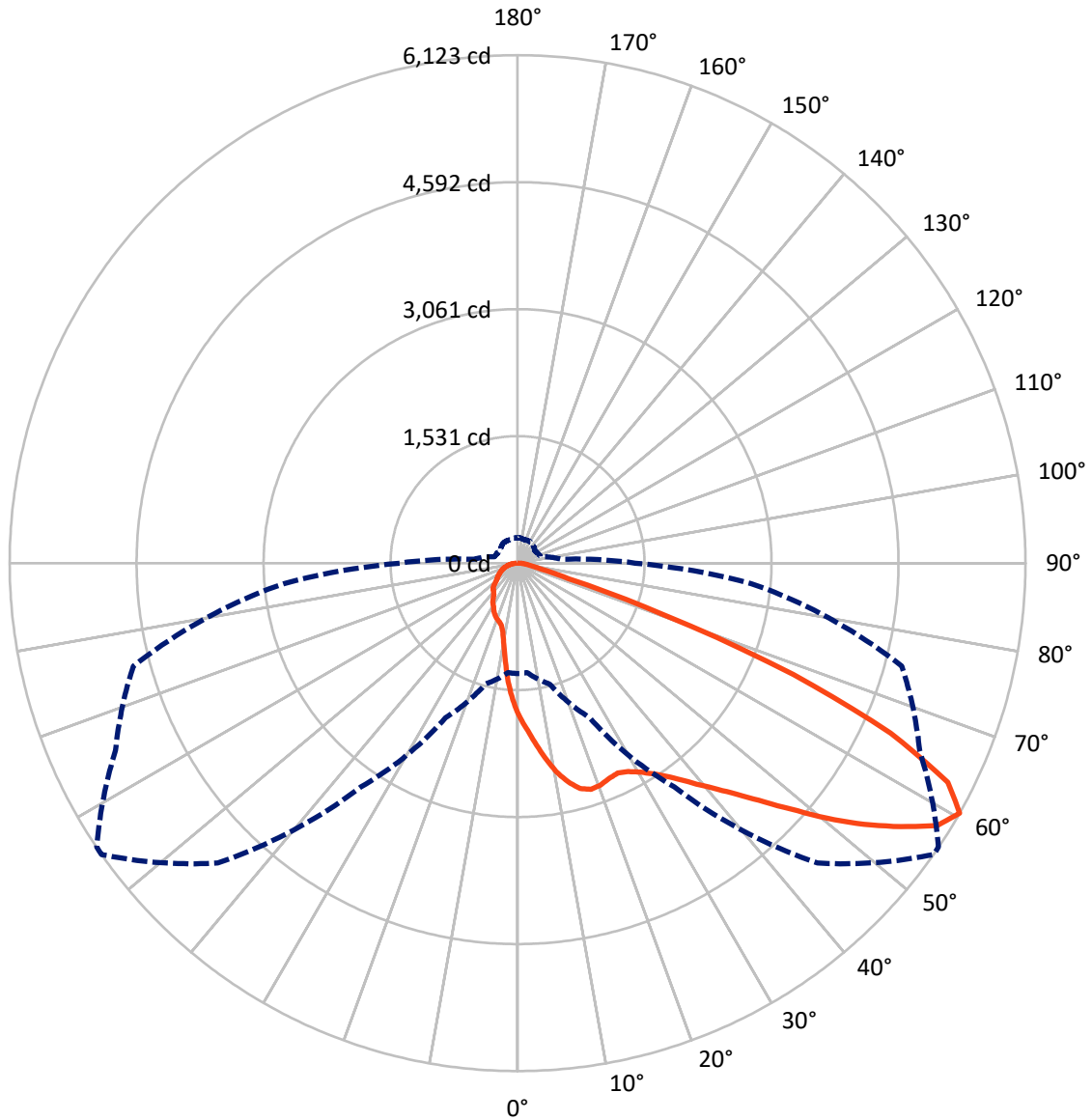
✕ Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 11.5 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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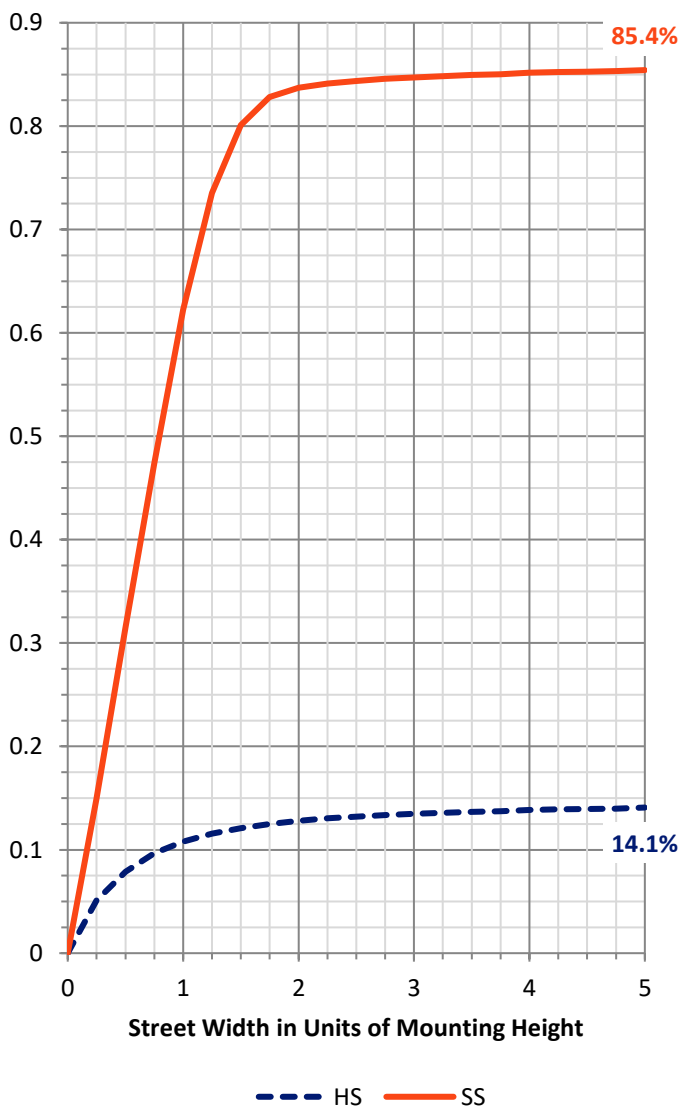
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1189.3	0.0	1189.3
	% Fixture	14.4	0.0	14.4
Street Side	Lumens	7084.1	0.0	7084.1
	% Fixture	85.6	0.0	85.6
Total	Lumens	8273.4	0.0	8273.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	171.7	2.1
10°-20°	486.5	5.9
20°-30°	792.1	9.6
30°-40°	1183.9	14.3
40°-50°	1740.0	21.0
50°-60°	2039.4	24.6
60°-70°	1344.7	16.3
70°-80°	428.2	5.2
80°-90°	87.1	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°	8273.4	100.0
0°-180°	8273.4	100.0



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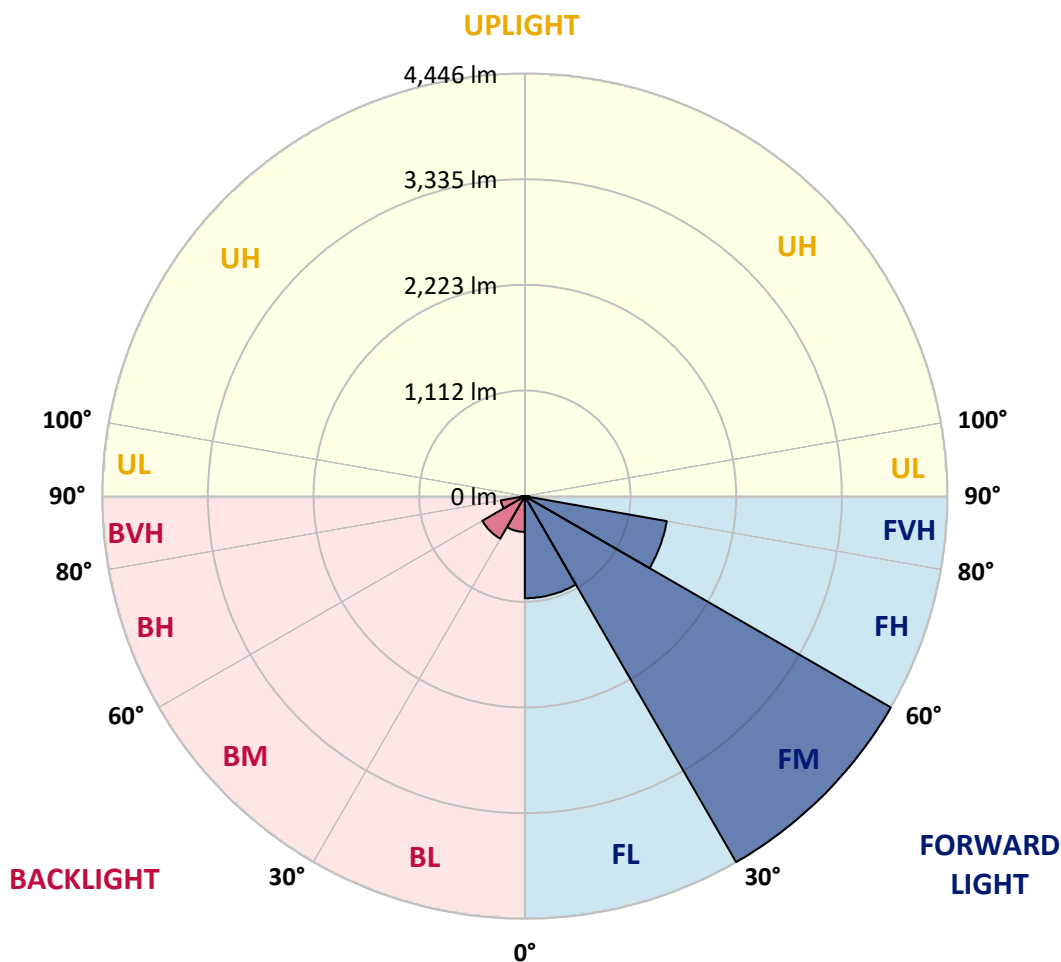
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1073.8	13.0			
FM (30°-60°)	4446.3	53.7			
FH (60°-80°)	1516.2	18.3			G1/1800
FVH (80°-90°)	47.8	0.6			G1/100
BL (0°-30°)	376.5	4.6	B1/500		
BM (30°-60°)	516.9	6.2	B1/1000		
BH (60°-80°)	256.6	3.1	B1/500		G1/500
BVH (80°-90°)	39.3	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°	1834.9	1834.9	1834.9	1834.9	1834.9	1834.9	1834.9	1834.9	1834.9	1834.9	1834.9
2.5°	2135.3	2127.5	2127.5	2107.7	2078.3	2037.5	1989.0	1977.0	1958.4	1911.0	1849.9
5°	2460.9	2452.5	2441.1	2406.3	2351.7	2270.2	2167.7	2149.1	2082.5	1984.8	1874.4
7.5°	2676.1	2671.3	2667.7	2637.8	2583.8	2503.4	2366.1	2345.1	2232.4	2070.5	1897.8
10°	2654.0	2668.3	2693.5	2714.5	2725.3	2683.9	2555.0	2530.4	2390.7	2170.1	1932.6
12.5°	2445.9	2466.3	2513.0	2598.8	2697.7	2777.5	2704.3	2690.5	2559.8	2275.6	1976.4
15°	2291.2	2299.6	2322.4	2385.9	2533.4	2746.3	2820.1	2807.5	2717.5	2411.1	2026.7
17.5°	2243.2	2246.8	2252.2	2273.2	2373.9	2624.6	2867.4	2879.4	2870.4	2552.0	2083.7
20°	2267.2	2269.6	2270.2	2273.8	2321.8	2522.6	2854.8	2875.2	3004.7	2692.9	2140.1
22.5°	2359.5	2356.5	2352.3	2338.5	2365.5	2504.6	2821.3	2853.6	3108.5	2821.3	2192.2
25°	2520.8	2516.6	2487.3	2458.5	2469.9	2569.4	2803.3	2838.0	3189.4	2942.4	2230.6
27.5°	2712.7	2708.5	2678.5	2624.0	2612.0	2677.3	2845.2	2866.8	3248.8	3049.7	2247.4
30°	2911.8	2911.8	2874.6	2811.7	2773.3	2800.9	2922.6	2940.0	3293.8	3153.4	2258.2
32.5°	3128.9	3134.9	3077.3	3005.3	2962.8	2946.6	3031.1	3046.1	3359.1	3275.8	2281.0
35°	3407.7	3394.5	3324.3	3229.6	3161.2	3124.7	3165.4	3182.8	3455.1	3428.1	2317.6
37.5°	3721.3	3697.9	3611.6	3498.2	3378.9	3317.7	3344.7	3348.9	3597.2	3626.6	2384.1
40°	3980.3	3976.1	3903.0	3795.6	3645.1	3563.0	3549.8	3552.2	3794.4	3861.6	2484.9
42.5°	4198.6	4183.0	4169.8	4132.0	3972.5	3837.6	3783.7	3784.3	4008.5	4104.5	2586.2
45°	4295.1	4292.1	4331.1	4428.3	4313.7	4154.8	4078.1	4088.9	4253.8	4353.9	2683.9
47.5°	4253.8	4256.2	4360.5	4615.3	4683.1	4561.4	4425.3	4418.7	4491.2	4545.2	2770.3
50°	3884.4	3923.4	4205.8	4632.7	4925.3	4985.9	4832.4	4807.8	4699.3	4697.5	2823.0
52.5°	3605.6	3603.8	3777.1	4455.8	5011.1	5369.1	5231.2	5176.0	4871.4	4783.2	2827.2
55°	3229.0	3226.6	3355.5	3938.4	4840.8	5636.5	5607.1	5538.2	5029.1	4811.4	2798.5
57.5°	2445.3	2490.9	2619.2	3152.8	4301.1	5593.9	5966.3	5908.7	5183.2	4798.8	2793.1
60°	1330.6	1325.2	1511.1	2054.9	3293.2	5110.6	6122.8	6119.8	5346.9	4794.0	2826.0
62.5°	613.4	607.4	644.6	915.0	1888.2	4094.3	5820.6	5863.8	5498.6	4750.3	2823.0
65°	458.7	443.1	392.8	425.7	722.6	2444.1	4943.9	5059.1	5264.7	4570.4	2692.3
67.5°	408.9	394.0	335.2	314.2	362.8	862.3	3586.4	3692.5	4402.5	4233.4	2480.7
70°	374.8	361.6	302.8	269.8	272.2	382.0	1877.4	2086.1	3226.6	3533.0	2114.3
72.5°	341.8	330.4	277.0	237.5	229.1	252.4	639.8	771.7	2007.0	2574.8	1576.4
75°	307.0	296.2	249.4	212.9	196.7	187.1	304.6	328.0	1061.3	1421.7	846.1
77.5°	266.8	260.8	222.5	187.7	173.9	141.5	202.7	212.9	454.5	558.3	403.0
80°	232.1	227.3	198.5	170.3	155.9	109.1	139.7	146.9	224.3	278.8	225.5
82.5°	151.1	163.1	164.3	146.3	137.3	87.5	92.3	97.7	148.7	164.3	98.3
85°	62.4	75.6	113.3	100.7	95.3	74.4	61.2	62.4	91.1	95.9	35.4
87.5°	28.2	31.2	55.8	56.4	49.2	28.2	30.6	33.6	46.8	46.2	15.6
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°	1834.9	1834.9	1834.9	1834.9	1834.9	1834.9	1834.9	1834.9	1834.9	1834.9	1834.9
2.5°	1833.1	1805.5	1756.3	1693.4	1648.4	1615.4	1579.4	1553.0	1523.7	1497.9	1502.1
5°	1828.9	1775.5	1665.2	1548.2	1434.3	1340.8	1262.8	1205.3	1145.9	1122.5	1119.5
7.5°	1832.5	1741.9	1560.8	1369.6	1196.3	1076.9	986.4	931.8	897.6	877.9	879.1
10°	1831.3	1710.1	1448.1	1184.3	994.8	885.7	830.5	812.5	809.5	811.9	815.5
12.5°	1833.1	1667.0	1321.6	1017.6	850.3	794.5	796.9	813.1	823.3	829.9	834.1
15°	1840.9	1631.6	1192.1	886.3	774.7	776.5	802.3	827.5	842.5	849.7	853.3
17.5°	1852.3	1587.2	1076.9	786.7	742.9	770.5	804.1	831.1	842.5	846.7	849.7
20°	1853.5	1536.2	960.6	718.4	722.0	757.9	787.3	808.9	823.3	828.1	830.5
22.5°	1848.1	1467.3	841.3	668.6	698.0	733.9	759.1	783.7	764.5	748.9	744.7
25°	1825.3	1380.3	739.3	627.8	668.0	701.6	730.3	703.4	694.4	682.4	683.6
27.5°	1776.1	1271.8	643.4	589.4	632.6	680.6	659.6	656.0	644.6	632.6	632.6
30°	1711.3	1157.3	563.1	549.3	590.0	614.0	618.8	613.4	606.8	591.2	592.4
32.5°	1653.2	1036.2	506.1	515.7	563.1	563.1	584.0	584.0	560.1	516.3	516.3
35°	1595.6	922.2	464.1	487.5	518.7	528.9	557.7	519.9	485.7	465.9	464.7
37.5°	1550.6	825.1	436.5	463.5	475.5	501.3	501.9	474.3	462.9	444.9	443.1
40°	1524.3	743.5	419.7	451.5	452.7	476.7	437.1	444.9	442.5	428.7	426.9
42.5°	1509.9	680.6	407.1	441.3	435.3	411.9	404.7	417.9	422.1	414.9	411.9
45°	1498.5	631.4	397.0	405.9	421.5	379.0	376.0	386.2	395.2	394.6	392.2
47.5°	1492.5	597.2	388.0	383.8	386.8	359.2	353.2	358.0	369.4	376.6	376.0
50°	1469.1	570.8	374.8	361.0	341.8	341.8	338.8	338.8	352.6	367.0	368.2
52.5°	1427.7	539.7	355.6	339.4	317.2	326.8	328.0	325.6	340.0	355.6	356.8
55°	1382.1	516.3	329.8	319.6	296.8	313.0	318.4	316.0	325.6	336.4	335.8
57.5°	1382.7	515.7	307.6	299.8	277.6	295.6	308.8	309.4	308.8	316.6	316.6
60°	1417.5	527.7	290.2	273.4	255.4	277.0	298.6	298.6	294.4	305.8	307.0
62.5°	1427.7	526.5	279.4	248.2	235.7	260.2	283.6	287.2	284.2	300.4	302.2
65°	1337.8	498.3	268.6	225.5	217.7	241.7	265.0	275.2	272.2	293.2	295.6
67.5°	1213.0	461.7	251.8	205.1	199.1	223.7	245.8	256.6	256.0	283.6	284.8
70°	1045.8	416.7	230.9	184.1	181.1	202.7	222.5	233.9	239.3	271.0	270.4
72.5°	810.1	357.4	199.1	161.9	161.3	181.1	198.5	211.1	221.3	251.8	251.8
75°	522.3	281.2	162.5	140.3	137.9	156.5	174.5	188.9	220.1	268.6	268.0
77.5°	319.0	214.7	130.7	116.9	116.3	133.1	151.1	175.7	240.5	239.3	232.7
80°	191.3	154.1	104.3	93.5	93.5	109.1	128.9	188.3	199.7	227.9	215.3
82.5°	99.5	94.7	78.0	69.0	72.0	85.7	117.5	150.5	163.1	138.5	127.1
85°	40.8	50.4	48.0	43.8	45.6	59.4	113.3	120.5	96.5	101.3	101.9
87.5°	13.8	22.2	22.2	17.4	19.2	42.0	67.2	40.2	48.6	28.8	21.6
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)