

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: P672052

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

Issue Date: 04/16/2023

Test Information

Test Method: LM-79-08
Report Number: P672052
Test Lab: INNOVATION CENTER(G2)
Issue Date: 04/16/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCP-SA-2D-850-U-AFL
Description: INVUE CLEAR CURVE POLE MOUNT LIGHT SQUARE LUMINAIRE @800mA w/ AFL
distribution lens
Light Source: (32) 5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9821 lumens
Efficiency: N/A
Efficacy: 121.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

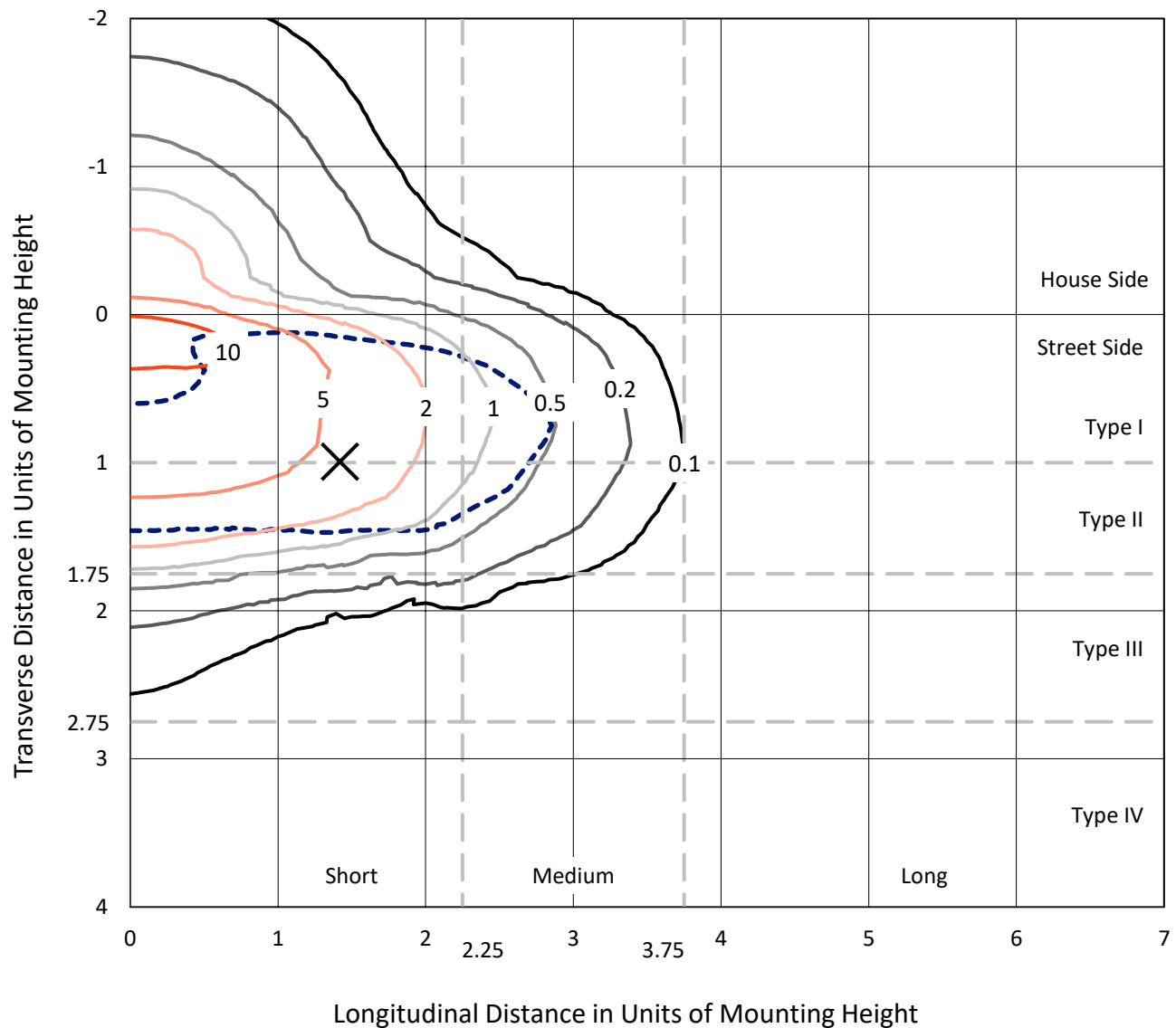
Input Watts (W): 80.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT

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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

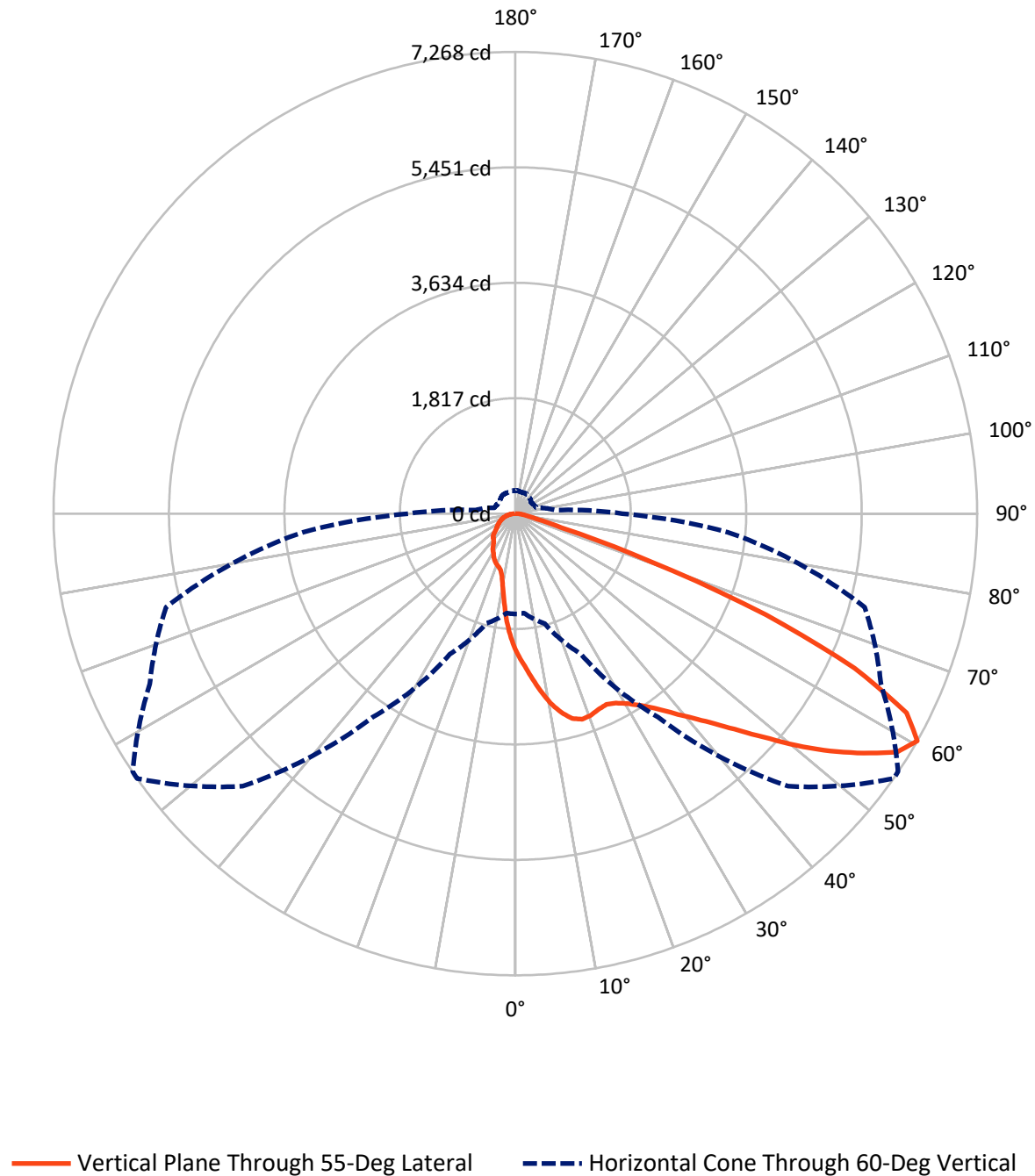


Based on 15 foot mounting height. Maximum calculated value = 13.6 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1411.8	0.0	1411.8
	% Fixture	14.4	0.0	14.4
Street Side	Lumens	8409.2	0.0	8409.2
	% Fixture	85.6	0.0	85.6
Total	Lumens	9821.0	0.0	9821.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	203.8	2.1
10°-20°	577.5	5.9
20°-30°	940.2	9.6
30°-40°	1405.3	14.3
40°-50°	2065.5	21.0
50°-60°	2420.9	24.6
60°-70°	1596.2	16.3
70°-80°	508.3	5.2
80°-90°	103.3	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°	9821.0	100.0
0°-180°	9821.0	100.0

Coefficient of Utilization



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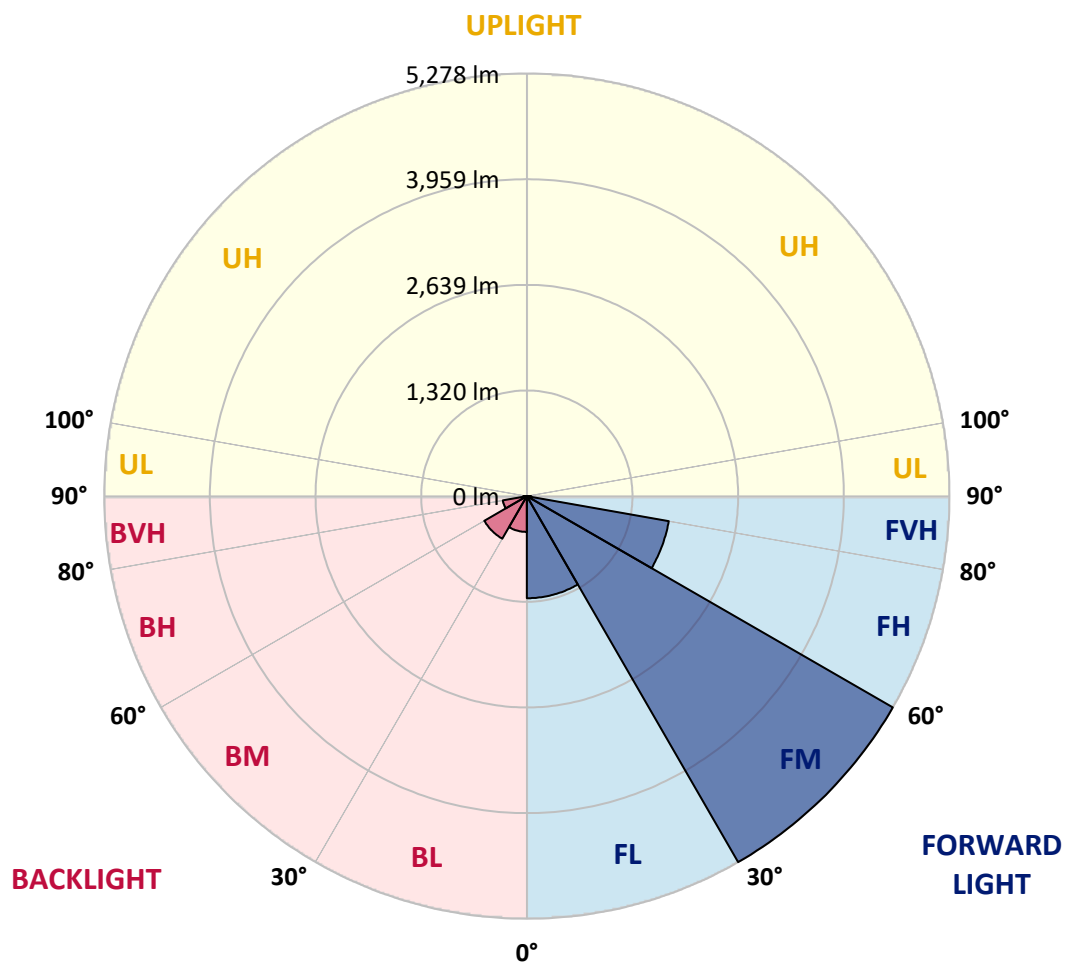
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1274.7	13.0			
FM	(30°-60°)	5278.0	53.7			
FH	(60°-80°)	1799.8	18.3			G1/1800
FVH	(80°-90°)	56.7	0.6			G1/100
BL	(0°-30°)	446.9	4.6	B1/500		
BM	(30°-60°)	613.6	6.2	B1/1000		
BH	(60°-80°)	304.6	3.1	B1/500		G1/500
BVH	(80°-90°)	46.7	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°	2178.1	2178.1	2178.1	2178.1	2178.1	2178.1	2178.1	2178.1	2178.1	2178.1	2178.1
2.5°	2534.7	2525.4	2525.4	2501.9	2467.1	2418.7	2361.0	2346.8	2324.7	2268.5	2195.9
5°	2921.2	2911.2	2897.7	2856.4	2791.6	2694.8	2573.1	2551.0	2472.0	2356.0	2225.1
7.5°	3176.7	3171.0	3166.7	3131.2	3067.1	2971.7	2808.7	2783.8	2650.0	2457.8	2252.8
10°	3150.4	3167.5	3197.4	3222.3	3235.1	3186.0	3032.9	3003.7	2837.9	2576.0	2294.1
12.5°	2903.4	2927.6	2983.1	3084.9	3202.3	3297.0	3210.2	3193.8	3038.6	2701.2	2346.1
15°	2719.7	2729.7	2756.8	2832.2	3007.3	3260.0	3347.5	3332.6	3225.8	2862.1	2405.8
17.5°	2662.8	2667.1	2673.5	2698.4	2818.0	3115.5	3403.8	3418.0	3407.3	3029.4	2473.5
20°	2691.3	2694.1	2694.8	2699.1	2756.0	2994.5	3388.8	3413.0	3566.8	3196.6	2540.4
22.5°	2800.9	2797.3	2792.3	2776.0	2808.0	2973.1	3349.0	3387.4	3689.9	3349.0	2602.3
25°	2992.4	2987.4	2952.5	2918.3	2931.9	3050.0	3327.6	3368.9	3786.0	3492.7	2647.9
27.5°	3220.1	3215.1	3179.6	3114.8	3100.5	3178.1	3377.4	3403.1	3856.5	3620.2	2667.8
30°	3456.4	3456.4	3412.3	3337.6	3292.0	3324.8	3469.3	3489.9	3909.9	3743.3	2680.6
32.5°	3714.1	3721.2	3652.9	3567.5	3516.9	3497.7	3598.1	3615.9	3987.4	3888.5	2707.6
35°	4045.1	4029.4	3946.2	3833.7	3752.5	3709.1	3757.5	3778.2	4101.3	4069.3	2751.1
37.5°	4417.4	4389.6	4287.1	4152.6	4010.9	3938.3	3970.4	3975.3	4270.0	4304.9	2830.1
40°	4724.9	4719.9	4633.0	4505.6	4327.0	4229.4	4213.8	4216.6	4504.2	4583.9	2949.7
42.5°	4983.9	4965.4	4949.8	4904.9	4715.6	4555.4	4491.4	4492.1	4758.3	4872.2	3069.9
45°	5098.5	5095.0	5141.2	5256.6	5120.6	4932.0	4840.9	4853.7	5049.4	5168.3	3186.0
47.5°	5049.4	5052.3	5176.1	5478.6	5559.1	5414.6	5253.0	5245.2	5331.3	5395.4	3288.5
50°	4611.0	4657.2	4992.5	5499.3	5846.6	5918.5	5736.3	5707.1	5578.3	5576.1	3351.1
52.5°	4280.0	4277.8	4483.6	5289.3	5948.4	6373.4	6209.6	6144.2	5782.6	5677.9	3356.1
55°	3833.0	3830.1	3983.2	4675.0	5746.3	6690.8	6655.9	6574.1	5969.8	5711.4	3321.9
57.5°	2902.7	2956.8	3109.1	3742.6	5105.7	6640.3	7082.3	7014.0	6152.7	5696.4	3315.5
60°	1579.5	1573.1	1793.7	2439.3	3909.1	6066.6	7268.1	7264.5	6347.0	5690.7	3354.7
62.5°	728.2	721.0	765.2	1086.2	2241.4	4860.1	6909.3	6960.6	6527.1	5638.8	3351.1
65°	544.5	526.0	466.2	505.4	857.7	2901.2	5868.7	6005.4	6249.5	5425.3	3195.9
67.5°	485.4	467.6	397.9	373.0	430.6	1023.6	4257.2	4383.2	5225.9	5025.2	2944.7
70°	444.9	429.2	359.5	320.3	323.2	453.4	2228.6	2476.3	3830.1	4193.9	2509.8
72.5°	405.7	392.2	328.8	281.9	271.9	299.7	759.5	916.1	2382.4	3056.4	1871.3
75°	364.4	351.6	296.1	252.7	233.5	222.1	361.6	389.3	1259.9	1687.7	1004.3
77.5°	316.7	309.6	264.1	222.8	206.4	168.0	240.6	252.7	539.5	662.7	478.3
80°	275.5	269.8	235.6	202.1	185.1	129.5	165.8	174.4	266.2	331.0	267.6
82.5°	179.4	193.6	195.0	173.7	163.0	103.9	109.6	116.0	176.5	195.0	116.7
85°	74.0	89.7	134.5	119.6	113.2	88.3	72.6	74.0	108.2	113.9	42.0
87.5°	33.5	37.0	66.2	66.9	58.4	33.5	36.3	39.9	55.5	54.8	18.5
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°	2178.1	2178.1	2178.1	2178.1	2178.1	2178.1	2178.1	2178.1	2178.1	2178.1	2178.1
2.5°	2175.9	2143.2	2084.8	2010.1	1956.7	1917.6	1874.9	1843.5	1808.7	1778.0	1783.0
5°	2171.0	2107.6	1976.6	1837.8	1702.6	1591.6	1499.0	1430.7	1360.2	1332.5	1328.9
7.5°	2175.2	2067.7	1852.8	1625.7	1420.0	1278.4	1170.9	1106.1	1065.5	1042.1	1043.5
10°	2173.8	2030.0	1719.0	1405.8	1180.9	1051.3	985.8	964.5	960.9	963.8	968.0
12.5°	2175.9	1978.8	1568.8	1207.9	1009.3	943.1	946.0	965.2	977.3	985.1	990.1
15°	2185.2	1936.8	1415.0	1052.0	919.6	921.8	952.4	982.3	1000.1	1008.6	1012.9
17.5°	2198.7	1884.1	1278.4	933.9	881.9	914.6	954.5	986.5	1000.1	1005.0	1008.6
20°	2200.1	1823.6	1140.3	852.7	857.0	899.7	934.6	960.2	977.3	983.0	985.8
22.5°	2193.7	1741.7	998.6	793.6	828.5	871.2	901.1	930.3	907.5	889.0	884.0
25°	2166.7	1638.5	877.6	745.2	792.9	832.8	867.0	834.9	824.3	810.0	811.4
27.5°	2108.3	1509.7	763.7	699.7	750.9	807.9	783.0	778.7	765.2	750.9	750.9
30°	2031.4	1373.8	668.4	652.0	700.4	728.9	734.6	728.2	720.3	701.8	703.2
32.5°	1962.4	1230.0	600.7	612.1	668.4	668.4	693.3	693.3	664.8	612.8	612.8
35°	1894.1	1094.7	550.9	578.7	615.7	627.8	662.0	617.1	576.5	553.1	551.6
37.5°	1840.7	979.4	518.2	550.2	564.4	595.1	595.8	563.0	549.5	528.1	526.0
40°	1809.4	882.6	498.3	536.0	537.4	565.9	518.9	528.1	525.3	508.9	506.8
42.5°	1792.3	807.9	483.3	523.9	516.8	489.0	480.5	496.1	501.1	492.6	489.0
45°	1778.8	749.5	471.2	481.9	500.4	449.9	446.3	458.4	469.1	468.4	465.5
47.5°	1771.6	708.9	460.5	455.5	459.1	426.4	419.2	424.9	438.5	447.0	446.3
50°	1743.9	677.6	444.9	428.5	405.7	405.7	402.2	402.2	418.5	435.6	437.0
52.5°	1694.8	640.6	422.1	402.9	376.5	387.9	389.3	386.5	403.6	422.1	423.5
55°	1640.7	612.8	391.5	379.4	352.3	371.6	378.0	375.1	386.5	399.3	398.6
57.5°	1641.4	612.1	365.1	355.9	329.6	350.9	366.6	367.3	366.6	375.8	375.8
60°	1682.7	626.4	344.5	324.6	303.2	328.8	354.5	354.5	349.5	363.0	364.4
62.5°	1694.8	625.0	331.7	294.7	279.7	308.9	336.7	340.9	337.4	356.6	358.7
65°	1588.0	591.5	318.9	267.6	258.4	286.9	314.6	326.7	323.2	348.1	350.9
67.5°	1439.9	548.1	299.0	243.4	236.3	265.5	291.8	304.6	303.9	336.7	338.1
70°	1241.4	494.7	274.0	218.5	215.0	240.6	264.1	277.6	284.0	321.7	321.0
72.5°	961.6	424.2	236.3	192.2	191.5	215.0	235.6	250.5	262.6	299.0	299.0
75°	620.0	333.8	192.9	166.6	163.7	185.8	207.1	224.2	261.2	318.9	318.2
77.5°	378.7	254.8	155.2	138.8	138.1	158.0	179.4	208.6	285.4	284.0	276.2
80°	227.1	182.9	123.9	111.0	111.0	129.5	153.0	223.5	237.0	270.5	255.5
82.5°	118.2	112.5	92.5	81.9	85.4	101.8	139.5	178.7	193.6	164.4	150.9
85°	48.4	59.8	56.9	52.0	54.1	70.5	134.5	143.1	114.6	120.3	121.0
87.5°	16.4	26.3	26.3	20.6	22.8	49.8	79.7	47.7	57.7	34.2	25.6
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)