

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: P672041

Luminaire Tested: **CCP-SA-2D-840-U-AFL**

Issue Date: 04/16/2023

Test Information

Test Method: LM-79-08
Report Number: P672041
Test Lab: INNOVATION CENTER(G2)
Issue Date: 04/16/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCP-SA-2D-840-U-AFL
Description: INVUE CLEAR CURVE POLE MOUNT LIGHT SQUARE LUMINAIRE @800mA w/ AFL
distribution lens
Light Source: (32) 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9595.9 lumens
Efficiency: N/A
Efficacy: 118.8 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

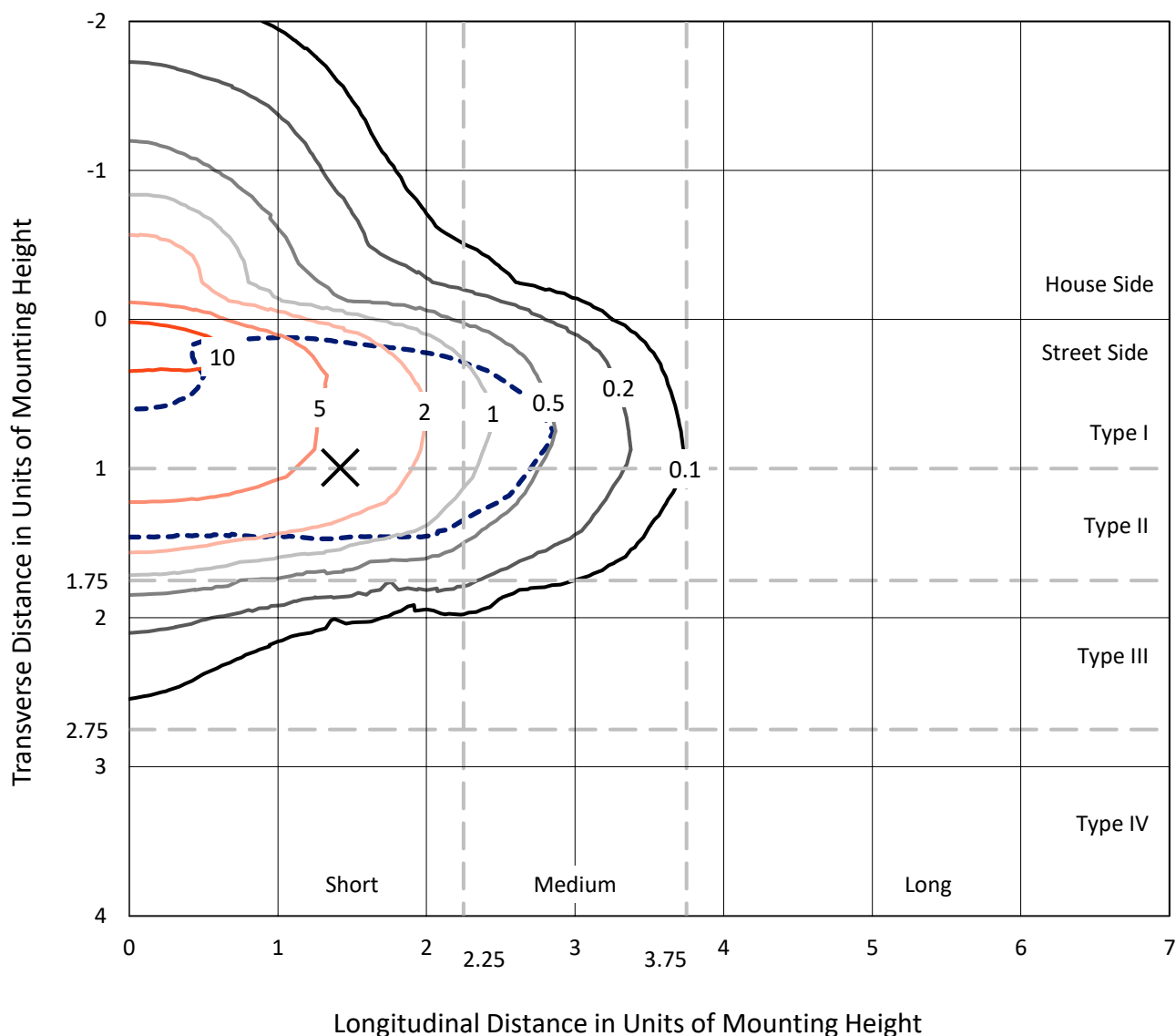
REPORT NUMBER: P672041

CATALOG NUMBER: CCP-SA-2D-840-U-AFL

Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd



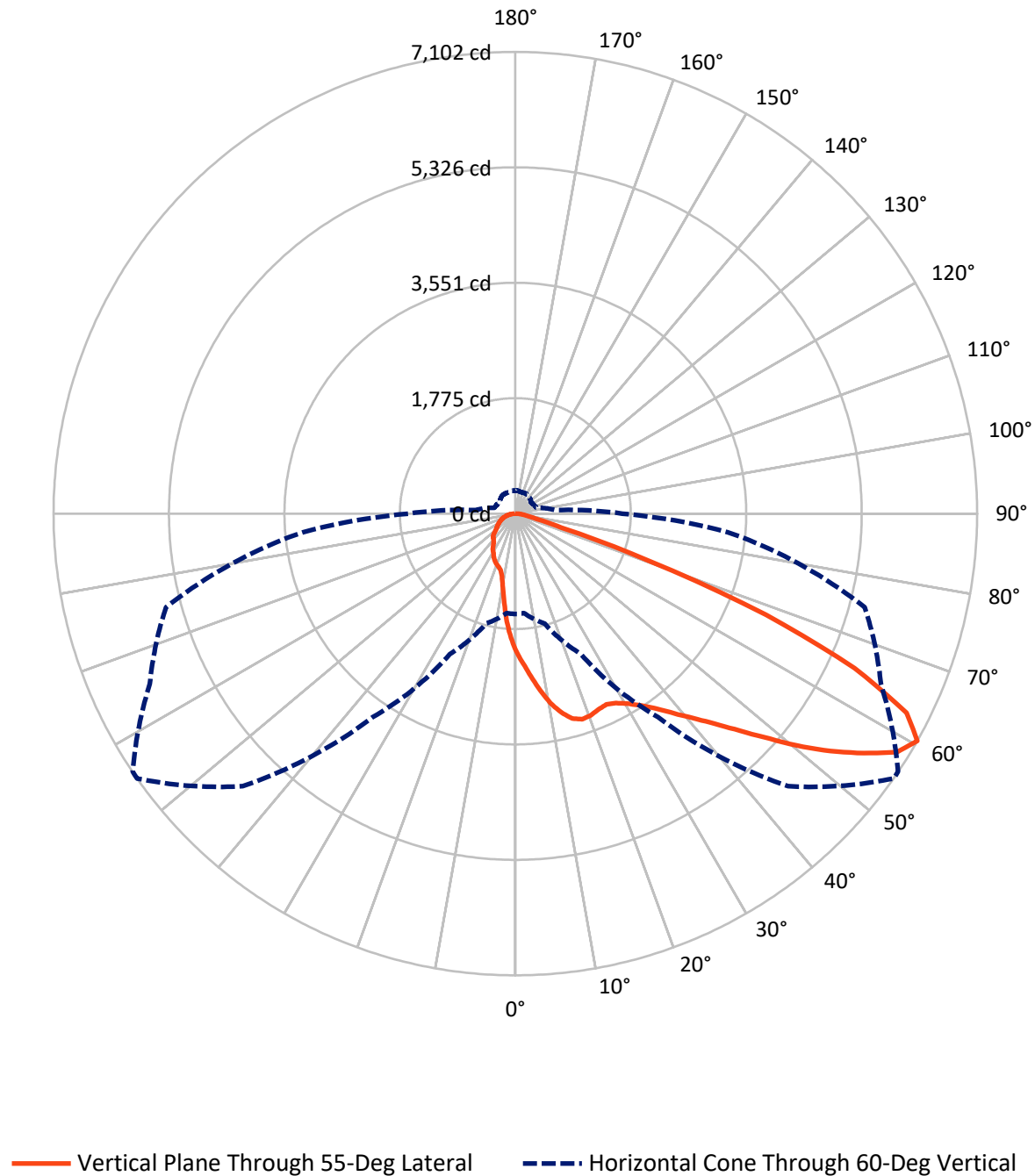
Based on 15 foot mounting height. Maximum calculated value = 13.3 fc

Type II - Short - N/A

REPORT NUMBER: P672041

CATALOG NUMBER: CCP-SA-2D-840-U-AFL

Luminous Intensity Polar Plot



REPORT NUMBER: P672041

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1379.4	0.0	1379.4
	% Fixture	14.4	0.0	14.4
Street Side	Lumens	8216.4	0.0	8216.4
	% Fixture	85.6	0.0	85.6
Total	Lumens	9595.9	0.0	9595.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	199.2	2.1
10°-20°	564.2	5.9
20°-30°	918.7	9.6
30°-40°	1373.1	14.3
40°-50°	2018.1	21.0
50°-60°	2365.4	24.6
60°-70°	1559.6	16.3
70°-80°	496.6	5.2
80°-90°	101.0	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°	9595.9	100.0
0°-180°	9595.9	100.0

Coefficient of Utilization



REPORT NUMBER: P672041

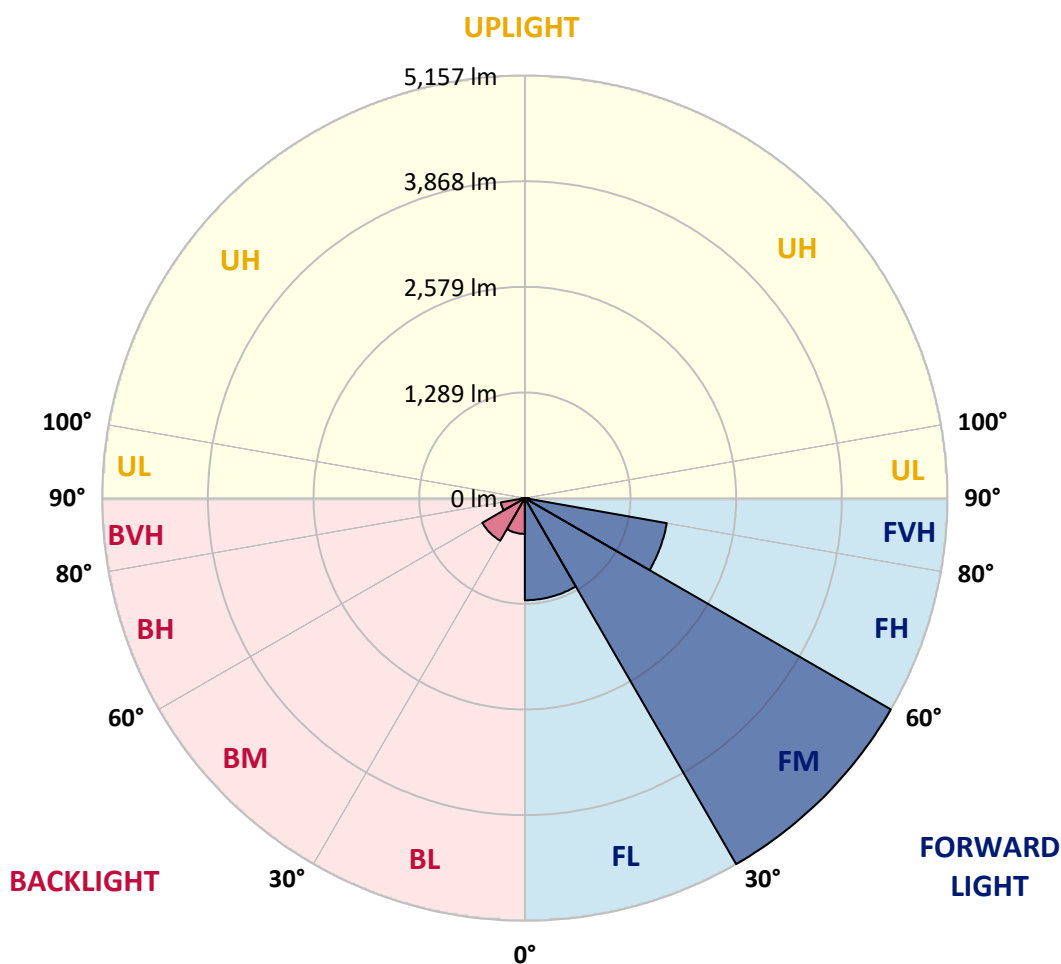
CATALOG NUMBER: CCP-SA-2D-840-U-AFL

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1245.4	13.0			
FM	(30°-60°)	5157.1	53.7			
FH	(60°-80°)	1758.6	18.3			G1/1800
FVH	(80°-90°)	55.4	0.6			G1/100
BL	(0°-30°)	436.7	4.6	B1/500		
BM	(30°-60°)	599.5	6.2	B1/1000		
BH	(60°-80°)	297.7	3.1	B1/500		G1/500
BVH	(80°-90°)	45.6	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





REPORT NUMBER: P672041

CATALOG NUMBER: CCP-SA-2D-840-U-AFL

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	2128.2	2128.2	2128.2	2128.2	2128.2	2128.2	2128.2	2128.2	2128.2	2128.2	2128.2
2.5°	2476.6	2467.5	2467.5	2444.6	2410.5	2363.2	2306.9	2293.0	2271.4	2216.5	2145.5
5°	2854.2	2844.5	2831.3	2790.9	2727.6	2633.1	2514.1	2492.6	2415.4	2302.0	2174.1
7.5°	3103.9	3098.3	3094.2	3059.4	2996.8	2903.6	2744.3	2720.0	2589.3	2401.5	2201.2
10°	3078.2	3094.9	3124.1	3148.4	3160.9	3112.9	2963.4	2934.9	2772.9	2516.9	2241.5
12.5°	2836.8	2860.5	2914.7	3014.2	3128.9	3221.4	3136.6	3120.6	2969.0	2639.3	2292.3
15°	2657.4	2667.1	2693.6	2767.3	2938.4	3185.3	3270.8	3256.2	3151.9	2796.5	2350.7
17.5°	2601.8	2605.9	2612.2	2636.5	2753.4	3044.1	3325.8	3339.7	3329.2	2959.9	2416.8
20°	2629.6	2632.4	2633.1	2637.2	2692.9	2925.9	3311.2	3334.8	3485.0	3123.4	2482.1
22.5°	2736.7	2733.2	2728.3	2712.3	2743.6	2905.0	3272.2	3309.8	3605.3	3272.2	2542.7
25°	2923.8	2918.9	2884.8	2851.4	2864.7	2980.1	3251.3	3291.7	3699.2	3412.7	2587.2
27.5°	3146.3	3141.5	3106.7	3043.4	3029.5	3105.3	3300.0	3325.1	3768.1	3537.2	2606.6
30°	3377.2	3377.2	3334.1	3261.1	3216.6	3248.6	3389.7	3409.9	3820.2	3657.5	2619.2
32.5°	3629.0	3635.9	3569.2	3485.7	3436.3	3417.6	3515.6	3533.0	3896.0	3799.4	2645.6
35°	3952.4	3937.1	3855.7	3745.8	3666.5	3624.1	3671.4	3691.6	4007.3	3976.0	2688.0
37.5°	4316.1	4289.0	4188.8	4057.4	3919.0	3848.1	3879.4	3884.2	4172.1	4206.2	2765.2
40°	4616.6	4611.7	4526.8	4402.4	4227.8	4132.5	4117.2	4120.0	4401.0	4478.9	2882.0
42.5°	4869.7	4851.6	4836.3	4792.5	4607.5	4451.0	4388.4	4389.1	4649.2	4760.5	2999.6
45°	4981.7	4978.2	5023.4	5136.1	5003.2	4818.9	4729.9	4742.4	4933.7	5049.8	3112.9
47.5°	4933.7	4936.5	5057.5	5353.1	5431.7	5290.5	5132.6	5124.9	5209.1	5271.7	3213.1
50°	4505.3	4550.5	4878.1	5373.2	5712.6	5782.9	5604.8	5576.3	5450.4	5448.3	3274.3
52.5°	4181.9	4179.8	4380.8	5168.1	5812.1	6227.3	6067.3	6003.3	5650.0	5547.8	3279.2
55°	3745.1	3742.3	3891.9	4567.9	5614.6	6537.5	6503.4	6423.4	5832.9	5580.5	3245.8
57.5°	2836.1	2889.0	3037.8	3656.8	4988.6	6488.1	6920.0	6853.2	6011.7	5565.9	3239.5
60°	1543.3	1537.0	1752.6	2383.4	3819.5	5927.5	7101.5	7098.0	6201.5	5560.3	3277.8
62.5°	711.5	704.5	747.6	1061.3	2190.0	4748.7	6751.0	6801.0	6377.5	5509.5	3274.3
65°	532.0	514.0	455.5	493.8	838.0	2834.8	5734.2	5867.7	6106.3	5300.9	3122.7
67.5°	474.3	456.9	388.8	364.4	420.8	1000.1	4159.6	4282.7	5106.2	4910.0	2877.2
70°	434.7	419.4	351.2	313.0	315.7	443.0	2177.5	2419.6	3742.3	4097.7	2452.2
72.5°	396.4	383.2	321.3	275.4	265.7	292.8	742.1	895.1	2327.8	2986.4	1828.4
75°	356.1	343.6	289.3	246.9	228.1	217.0	353.3	380.4	1231.0	1649.0	981.3
77.5°	309.5	302.5	258.0	217.7	201.7	164.1	235.1	246.9	527.2	647.5	467.4
80°	269.1	263.6	230.2	197.5	180.8	126.6	162.0	170.4	260.1	323.4	261.5
82.5°	175.3	189.2	190.6	169.7	159.3	101.5	107.1	113.4	172.5	190.6	114.1
85°	72.3	87.6	131.4	116.8	110.6	86.2	70.9	72.3	105.7	111.3	41.0
87.5°	32.7	36.2	64.7	65.4	57.0	32.7	35.5	38.9	54.2	53.6	18.1
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: P672041

CATALOG NUMBER: CCP-SA-2D-840-U-AFL

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2128.2	2128.2	2128.2	2128.2	2128.2	2128.2	2128.2	2128.2	2128.2	2128.2	2128.2
2.5°	2126.1	2094.1	2037.0	1964.0	1911.9	1873.6	1831.9	1801.3	1767.2	1737.3	1742.2
5°	2121.2	2059.3	1931.3	1795.7	1663.6	1555.1	1464.7	1397.9	1329.1	1301.9	1298.5
7.5°	2125.4	2020.4	1810.3	1588.5	1387.5	1249.1	1144.1	1080.8	1041.1	1018.2	1019.6
10°	2124.0	1983.5	1679.6	1373.6	1153.8	1027.2	963.2	942.4	938.9	941.7	945.8
12.5°	2126.1	1933.4	1532.8	1180.2	986.2	921.5	924.3	943.1	954.9	962.5	967.4
15°	2135.1	1892.4	1382.6	1027.9	898.6	900.6	930.5	959.8	977.1	985.5	989.7
17.5°	2148.3	1840.9	1249.1	912.5	861.7	893.7	932.6	963.9	977.1	982.0	985.5
20°	2149.7	1781.8	1114.1	833.2	837.4	879.1	913.2	938.2	954.9	960.4	963.2
22.5°	2143.5	1701.8	975.8	775.5	809.5	851.3	880.5	909.0	886.7	868.6	863.8
25°	2117.0	1601.0	857.5	728.2	774.8	813.7	847.1	815.8	805.4	791.4	792.8
27.5°	2060.0	1475.1	746.2	683.7	733.7	789.4	765.0	760.8	747.6	733.7	733.7
30°	1984.9	1342.3	653.1	637.1	684.3	712.2	717.7	711.5	703.8	685.7	687.1
32.5°	1917.4	1201.8	587.0	598.1	653.1	653.1	677.4	677.4	649.6	598.8	598.8
35°	1850.7	1069.6	538.3	565.4	601.6	613.4	646.8	603.0	563.3	540.4	539.0
37.5°	1798.5	957.0	506.3	537.6	551.5	581.4	582.1	550.1	536.9	516.0	514.0
40°	1767.9	862.4	486.8	523.7	525.1	552.9	507.0	516.0	513.3	497.3	495.2
42.5°	1751.2	789.4	472.2	511.9	504.9	477.8	469.4	484.7	489.6	481.3	477.8
45°	1738.0	732.3	460.4	470.8	488.9	439.5	436.1	447.9	458.3	457.6	454.8
47.5°	1731.0	692.7	450.0	445.1	448.6	416.6	409.6	415.2	428.4	436.8	436.1
50°	1703.9	662.1	434.7	418.7	396.4	396.4	392.9	392.9	408.9	425.6	427.0
52.5°	1655.9	625.9	412.4	393.6	367.9	379.0	380.4	377.6	394.3	412.4	413.8
55°	1603.1	598.8	382.5	370.7	344.3	363.0	369.3	366.5	377.6	390.2	389.5
57.5°	1603.8	598.1	356.8	347.7	322.0	342.9	358.2	358.9	358.2	367.2	367.2
60°	1644.1	612.0	336.6	317.1	296.3	321.3	346.3	346.3	341.5	354.7	356.1
62.5°	1655.9	610.6	324.1	287.9	273.3	301.8	329.0	333.1	329.7	348.4	350.5
65°	1551.6	577.9	311.6	261.5	252.5	280.3	307.4	319.2	315.7	340.1	342.9
67.5°	1406.9	535.5	292.1	237.9	230.9	259.4	285.1	297.7	297.0	329.0	330.4
70°	1212.9	483.4	267.8	213.5	210.0	235.1	258.0	271.2	277.5	314.4	313.7
72.5°	939.6	414.5	230.9	187.8	187.1	210.0	230.2	244.8	256.6	292.1	292.1
75°	605.8	326.2	188.5	162.7	160.0	181.5	202.4	219.1	255.2	311.6	310.9
77.5°	370.0	249.0	151.6	135.6	134.9	154.4	175.3	203.8	278.9	277.5	269.8
80°	221.9	178.7	121.0	108.5	108.5	126.6	149.5	218.4	231.6	264.3	249.7
82.5°	115.4	109.9	90.4	80.0	83.5	99.5	136.3	174.6	189.2	160.7	147.4
85°	47.3	58.4	55.6	50.8	52.9	68.9	131.4	139.8	112.0	117.5	118.2
87.5°	16.0	25.7	25.7	20.2	22.3	48.7	77.9	46.6	56.3	33.4	25.0
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)