

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: P674423

Luminaire Tested: **CCP-SA-2D-740-U-AFL-HSS**

Issue Date: 04/16/2023



Test Information

Test Method: LM-79-08
Report Number: P674423
Test Lab: INNOVATION CENTER(G2)
Issue Date: 04/16/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCP-SA-2D-740-U-AFL-HSS
Description: INVUE CLEAR CURVE POLE MOUNT Light Square Luminaire @800mA w/ AFL distribution lens and House Side Shield
Light Source: (32) 4000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

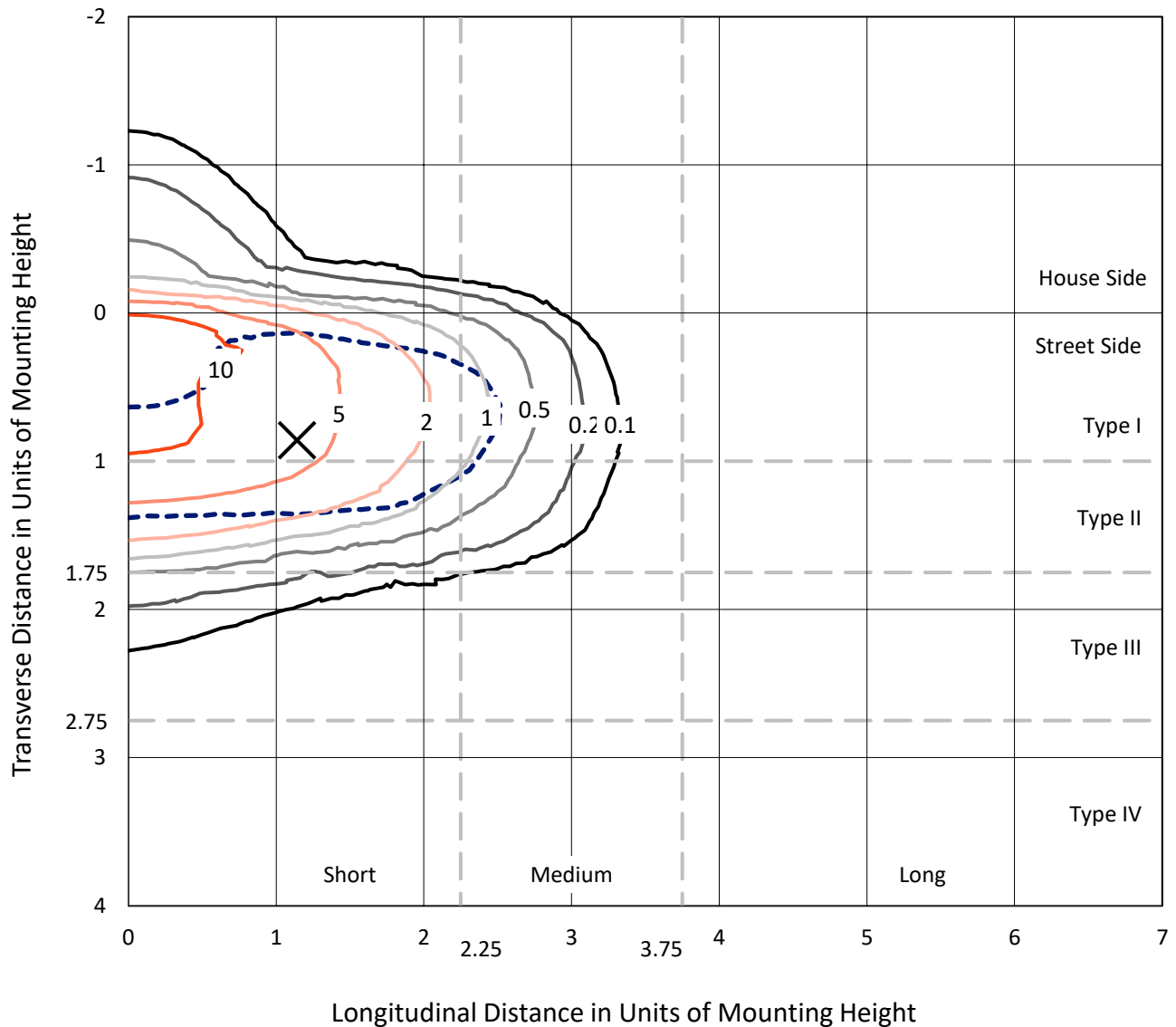
Lumens per Lamp: N/A
Luminaire Lumens: 9248.5 lumens
Efficiency: N/A
Efficacy: 114.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

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

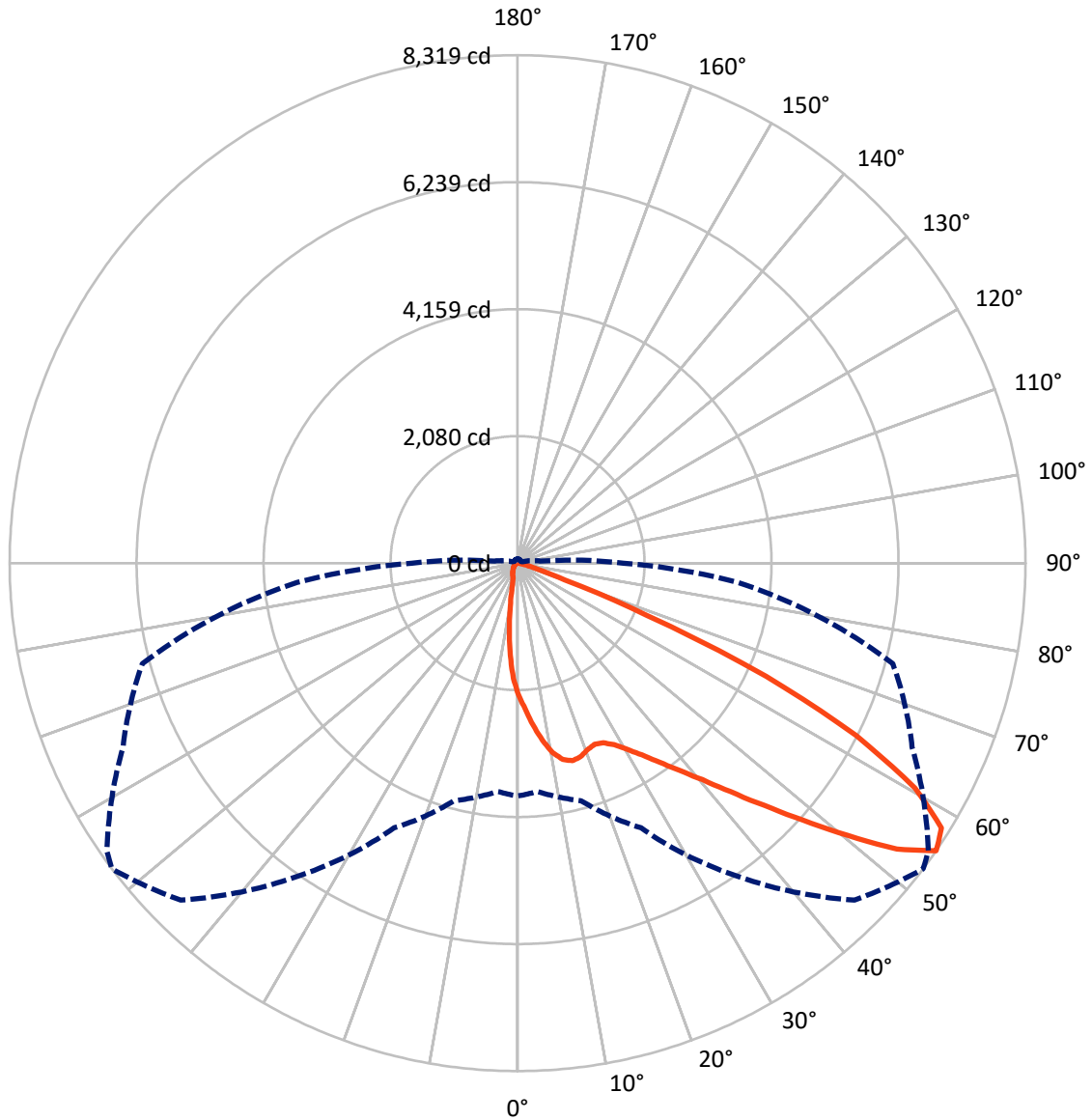
✕ Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 14 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	499.9	0.0	499.9
	% Fixture	5.4	0.0	5.4
Street Side	Lumens	8748.6	0.0	8748.6
	% Fixture	94.6	0.0	94.6
Total	Lumens	9248.5	0.0	9248.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	193.5	2.1
10°-20°	505.6	5.5
20°-30°	846.3	9.2
30°-40°	1384.5	15.0
40°-50°	2225.6	24.1
50°-60°	2512.7	27.2
60°-70°	1340.3	14.5
70°-80°	220.2	2.4
80°-90°	19.7	0.2
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°	9248.5	100.0
0°-180°	9248.5	100.0



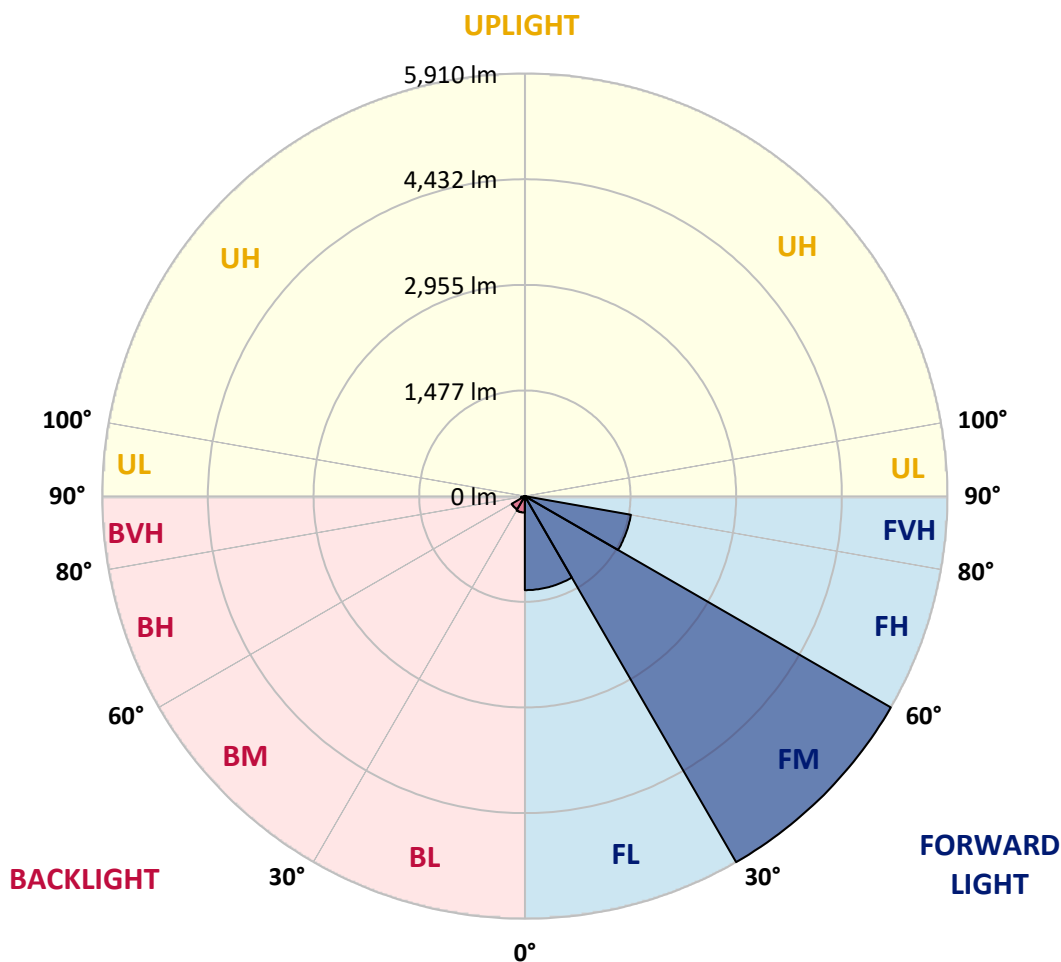
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1314.7	14.2			
FM (30°-60°)	5909.9	63.9			
FH (60°-80°)	1505.9	16.3			G1/1800
FVH (80°-90°)	18.1	0.2			G1/100
BL (0°-30°)	230.7	2.5	B1/500		
BM (30°-60°)	213.0	2.3	B0/220		
BH (60°-80°)	54.7	0.6	B0/110		G0/110
BVH (80°-90°)	1.6	0.0			G0/10
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°	53°	55°	65°	75°	85°
0°	2164.4	2164.4	2164.4	2164.4	2164.4	2164.4	2164.4	2164.4	2164.4	2164.4	2164.4
2.5°	2595.5	2580.1	2589.0	2565.5	2522.5	2469.1	2388.8	2392.9	2329.7	2274.6	2198.4
5°	3024.1	3007.9	3003.1	2943.1	2883.1	2786.7	2667.6	2648.1	2532.3	2392.1	2232.4
7.5°	3250.2	3236.4	3247.0	3225.1	3165.9	3078.4	2927.7	2913.1	2734.0	2521.7	2286.7
10°	3146.5	3141.6	3186.2	3238.0	3285.9	3275.3	3154.6	3131.9	2930.9	2664.3	2342.6
12.5°	2867.7	2883.1	2939.9	3035.5	3182.9	3321.5	3302.1	3306.1	3131.9	2819.1	2404.2
15°	2704.0	2722.7	2755.1	2804.5	2986.0	3232.4	3358.0	3398.5	3324.8	2991.7	2477.2
17.5°	2690.3	2705.7	2710.5	2729.2	2835.3	3088.9	3335.3	3412.3	3496.5	3154.6	2559.0
20°	2796.4	2802.9	2798.9	2785.1	2823.2	3011.2	3264.0	3374.2	3638.3	3328.0	2631.1
22.5°	2996.6	2986.8	2974.7	2923.6	2921.2	3033.0	3225.1	3340.1	3722.6	3471.4	2678.9
25°	3244.5	3224.3	3207.3	3135.1	3101.1	3147.3	3259.9	3352.3	3798.8	3610.8	2713.0
27.5°	3515.2	3521.7	3479.5	3382.3	3328.8	3319.1	3367.7	3436.6	3872.5	3735.6	2731.6
30°	3804.5	3807.7	3752.6	3652.1	3603.5	3541.1	3537.9	3579.2	3951.9	3879.0	2749.4
32.5°	4134.3	4143.2	4053.2	3948.7	3863.6	3782.6	3742.9	3777.7	4094.6	4066.2	2785.9
35°	4610.7	4571.8	4450.3	4292.3	4171.5	4065.4	4004.6	4027.3	4284.2	4290.7	2858.8
37.5°	5101.8	5097.7	4963.2	4735.5	4537.8	4405.7	4302.0	4339.3	4550.8	4591.3	2975.5
40°	5559.6	5570.2	5453.5	5254.9	5000.5	4773.6	4662.6	4687.7	4904.9	4955.9	3117.3
42.5°	5858.6	5853.0	5861.9	5805.2	5549.9	5282.5	5115.6	5129.3	5316.5	5343.3	3294.8
45°	5996.4	5974.5	6050.7	6230.6	6129.3	5848.1	5657.7	5640.7	5743.6	5736.3	3456.0
47.5°	5877.3	5836.8	6011.8	6445.3	6641.4	6556.3	6284.1	6253.3	6165.7	6107.4	3623.8
50°	5284.9	5267.1	5641.5	6343.2	6963.1	7211.1	7010.9	6896.7	6542.5	6381.3	3712.1
52.5°	4721.8	4672.3	4925.1	5822.2	6819.7	7737.8	7779.1	7575.7	6855.3	6459.9	3682.1
55°	3814.2	3753.4	4028.9	4783.3	6251.6	7805.0	8318.8	8212.6	7129.2	6362.7	3621.3
57.5°	2316.7	2256.7	2661.9	3426.0	4999.7	7245.9	8185.9	8293.7	7339.9	6255.7	3581.6
60°	974.0	935.9	1094.7	1635.2	3192.7	5955.1	7480.9	7749.9	7379.6	6109.0	3597.8
62.5°	506.5	489.4	498.3	654.7	1290.8	3921.2	6226.5	6694.9	6979.3	6044.2	3614.0
65°	380.0	367.1	338.7	359.8	501.6	1695.2	4474.6	5101.8	6111.5	5879.7	3504.6
67.5°	312.0	299.8	279.6	273.1	295.8	588.3	2284.3	3099.5	4789.0	5178.8	3112.4
70°	248.8	244.7	238.2	226.1	222.0	285.2	819.2	1263.3	3166.7	3652.1	2255.9
72.5°	207.4	208.3	201.0	190.4	175.8	183.9	326.6	431.9	1532.3	1751.1	944.8
75°	173.4	173.4	175.8	161.3	146.7	126.4	181.5	210.7	491.9	404.4	201.8
77.5°	136.1	137.8	148.3	136.1	117.5	79.4	98.9	112.6	145.9	116.7	73.7
80°	108.6	107.0	102.9	122.4	105.3	55.9	47.0	51.9	68.1	55.9	36.5
82.5°	76.2	75.4	72.1	82.7	81.8	41.3	30.8	31.6	41.3	35.7	22.7
85°	18.6	21.9	46.2	38.9	34.0	24.3	18.6	20.3	26.7	23.5	12.2
87.5°	8.1	8.1	21.1	25.1	16.2	10.5	8.1	8.9	13.8	13.8	7.3
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°	2164.4	2164.4	2164.4	2164.4	2164.4	2164.4	2164.4	2164.4	2164.4	2164.4	2164.4
2.5°	2171.7	2119.0	2052.5	1982.0	1909.9	1823.2	1768.1	1722.7	1687.1	1659.5	1649.8
5°	2179.8	2078.5	1927.8	1740.6	1550.1	1371.9	1234.1	1132.0	1047.7	1001.6	981.3
7.5°	2179.0	2044.4	1772.2	1458.6	1149.0	892.2	709.8	597.2	521.8	491.1	472.4
10°	2178.1	1999.9	1594.7	1145.8	768.2	517.0	380.9	317.6	290.1	279.6	277.9
12.5°	2201.6	1948.8	1396.2	843.5	482.1	321.7	265.0	250.4	243.9	240.7	239.9
15°	2214.6	1901.8	1187.1	595.6	324.9	254.4	236.6	230.1	227.7	226.1	225.3
17.5°	2228.4	1828.9	988.6	431.1	260.1	230.9	220.4	216.4	214.7	214.7	214.7
20°	2230.8	1750.3	791.7	317.6	230.9	215.5	205.0	201.0	198.5	196.9	196.9
22.5°	2213.0	1657.1	622.3	257.7	213.9	201.0	189.6	183.1	179.1	178.3	178.3
25°	2168.4	1525.0	477.3	226.1	200.1	186.4	172.6	165.3	162.1	162.1	162.1
27.5°	2104.4	1369.4	368.7	201.0	182.3	168.5	156.4	149.9	149.1	148.3	149.1
30°	2031.5	1219.5	282.0	178.3	161.3	149.9	140.2	136.9	138.6	138.6	139.4
32.5°	1958.5	1069.6	220.4	160.4	142.6	132.9	128.0	128.0	130.5	130.5	130.5
35°	1896.2	923.0	184.8	145.9	129.7	121.5	119.1	121.5	123.2	124.0	124.0
37.5°	1861.3	796.5	162.9	132.9	119.1	112.6	111.8	114.3	117.5	119.9	120.7
40°	1848.3	699.3	149.9	123.2	109.4	105.3	104.5	107.8	113.4	117.5	118.3
42.5°	1849.2	613.4	138.6	113.4	102.9	97.2	97.2	102.1	107.8	111.8	111.8
45°	1854.8	539.7	127.2	103.7	97.2	87.5	88.3	94.8	98.9	102.9	102.9
47.5°	1859.7	480.5	115.1	93.2	84.3	79.4	81.0	85.9	91.6	98.0	98.0
50°	1831.3	438.4	102.9	81.8	73.7	72.1	75.4	79.4	87.5	94.0	94.8
52.5°	1763.3	400.3	92.4	72.9	66.4	67.3	71.3	73.7	80.2	81.0	81.8
55°	1733.3	380.9	84.3	66.4	60.8	63.2	65.6	66.4	64.8	60.8	60.8
57.5°	1726.8	367.9	76.2	60.0	55.9	59.2	58.3	53.5	48.6	43.8	42.9
60°	1733.3	350.1	69.7	51.9	51.1	51.9	49.4	40.5	34.0	30.8	29.2
62.5°	1696.0	324.1	64.0	44.6	44.6	43.8	37.3	27.6	21.9	19.4	18.6
65°	1572.8	273.1	58.3	37.3	36.5	34.8	25.1	18.6	14.6	12.2	11.3
67.5°	1330.5	211.5	52.7	30.8	29.2	24.3	16.2	12.2	8.1	7.3	6.5
70°	907.6	131.3	44.6	24.3	21.9	15.4	9.7	7.3	4.9	4.1	3.2
72.5°	329.0	76.2	37.3	18.6	14.6	9.7	5.7	3.2	2.4	2.4	1.6
75°	77.8	53.5	28.4	13.8	9.7	5.7	3.2	2.4	1.6	1.6	0.8
77.5°	35.7	41.3	18.6	8.1	6.5	4.1	2.4	1.6	0.8	0.8	0.0
80°	20.3	29.2	8.9	5.7	4.9	3.2	1.6	0.8	0.8	0.0	0.0
82.5°	10.5	16.2	6.5	4.9	4.1	2.4	1.6	0.0	0.0	0.0	0.0
85°	7.3	8.1	4.9	4.1	3.2	2.4	1.6	0.0	0.0	0.0	0.0
87.5°	5.7	5.7	4.9	4.1	3.2	2.4	0.8	0.0	0.0	0.0	0.0
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)