

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: P674457

Luminaire Tested: **CCP-SA-2E-827-U-AFL-HSS**

Issue Date: 04/16/2023



Test Information

Test Method: LM-79-08
Report Number: P674457
Test Lab: INNOVATION CENTER(G2)
Issue Date: 04/16/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCP-SA-2E-827-U-AFL-HSS
Description: INVUE CLEAR CURVE POLE MOUNT Light Square Luminaire @1050mA w/ AFL distribution lens and House Side Shield
Light Source: (32) 2700K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

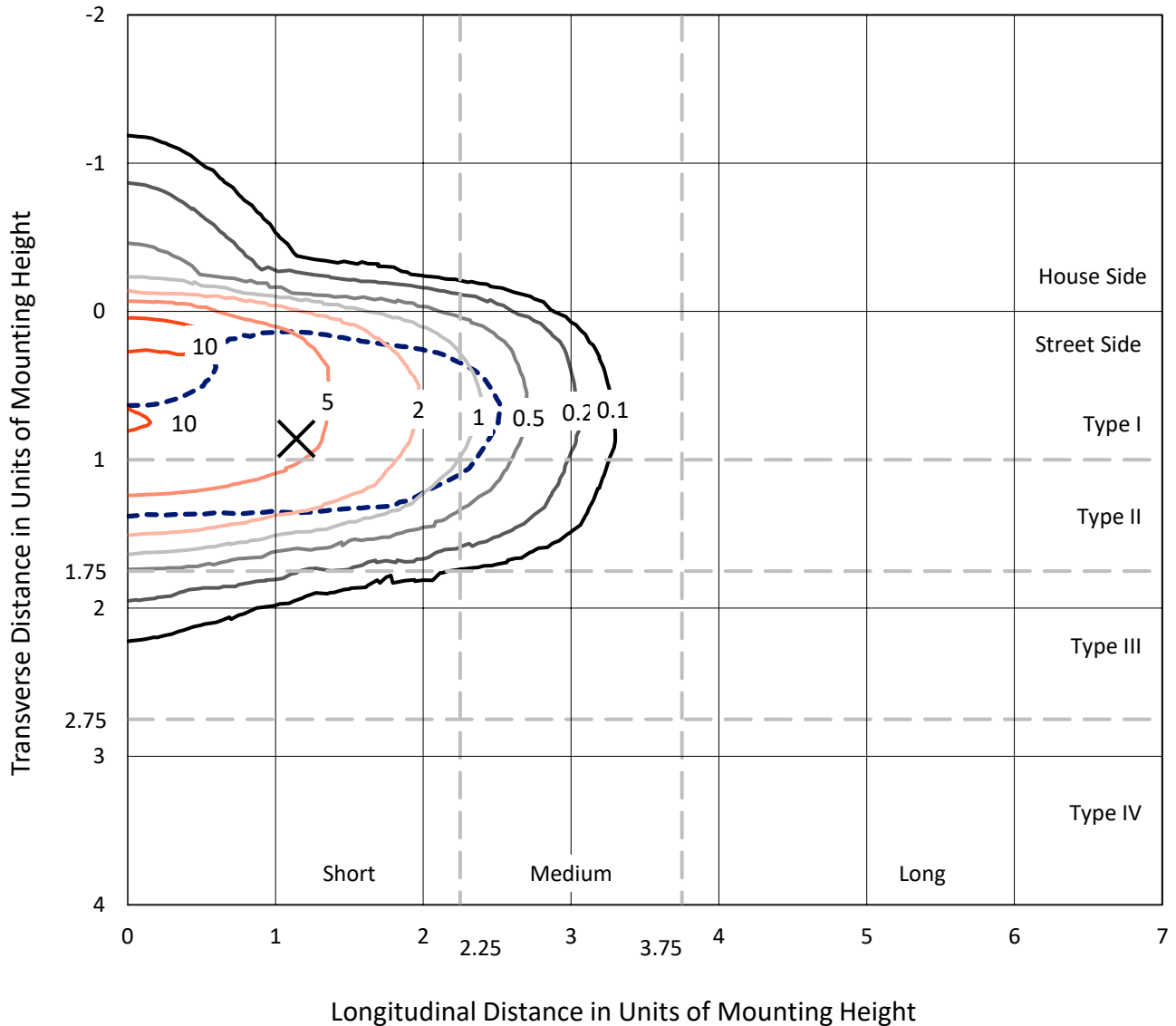
Lumens per Lamp: N/A
Luminaire Lumens: 8334.9 lumens
Efficiency: N/A
Efficacy: 78.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

Input Watts (W): 106.6
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

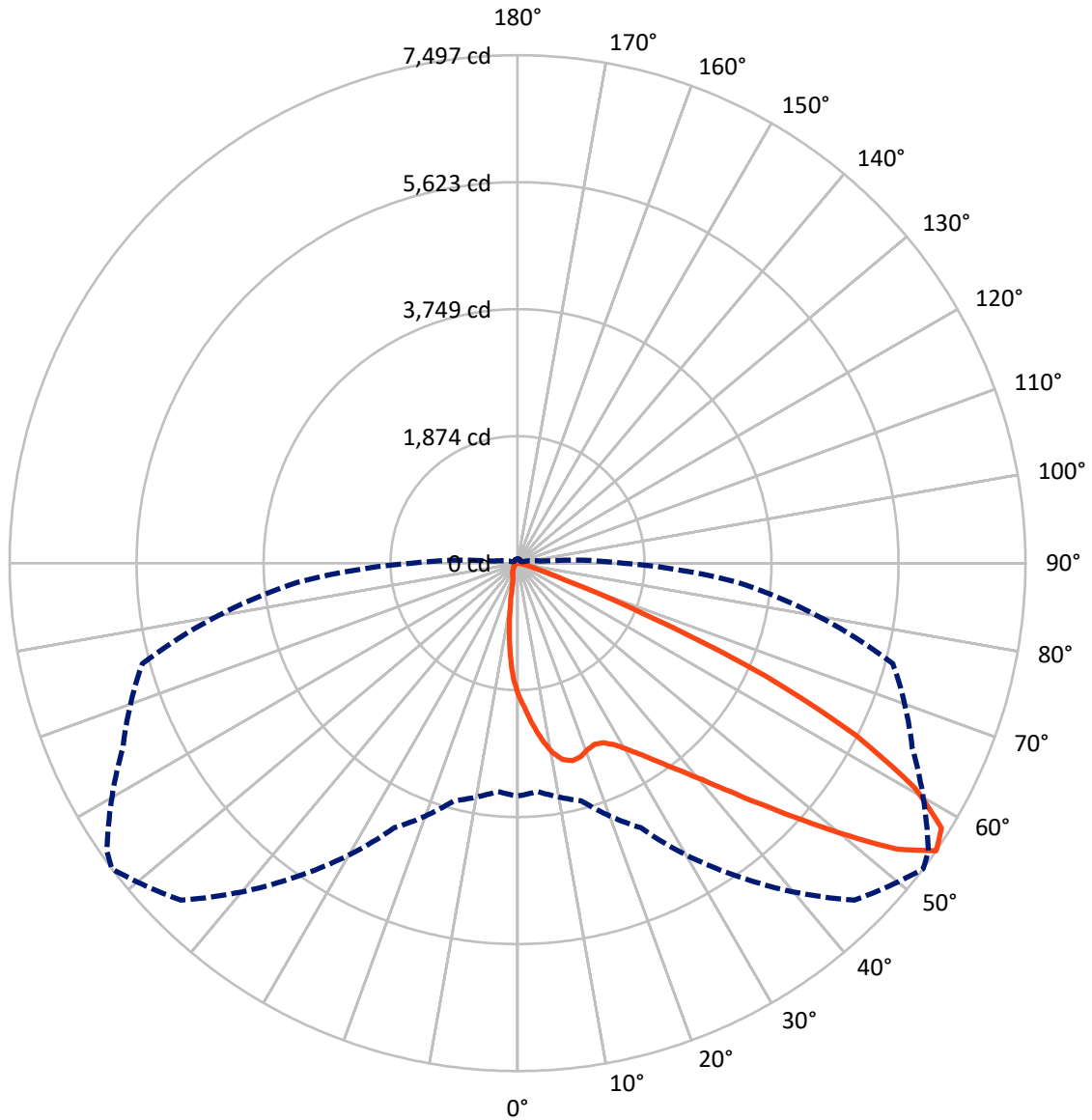
✕ Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 12.6 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	450.5	0.0	450.5
	% Fixture	5.4	0.0	5.4
Street Side	Lumens	7884.4	0.0	7884.4
	% Fixture	94.6	0.0	94.6
Total	Lumens	8334.9	0.0	8334.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	174.4	2.1
10°-20°	455.7	5.5
20°-30°	762.7	9.2
30°-40°	1247.8	15.0
40°-50°	2005.7	24.1
50°-60°	2264.5	27.2
60°-70°	1207.9	14.5
70°-80°	198.5	2.4
80°-90°	17.8	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°	8334.9	100.0
0°-180°	8334.9	100.0



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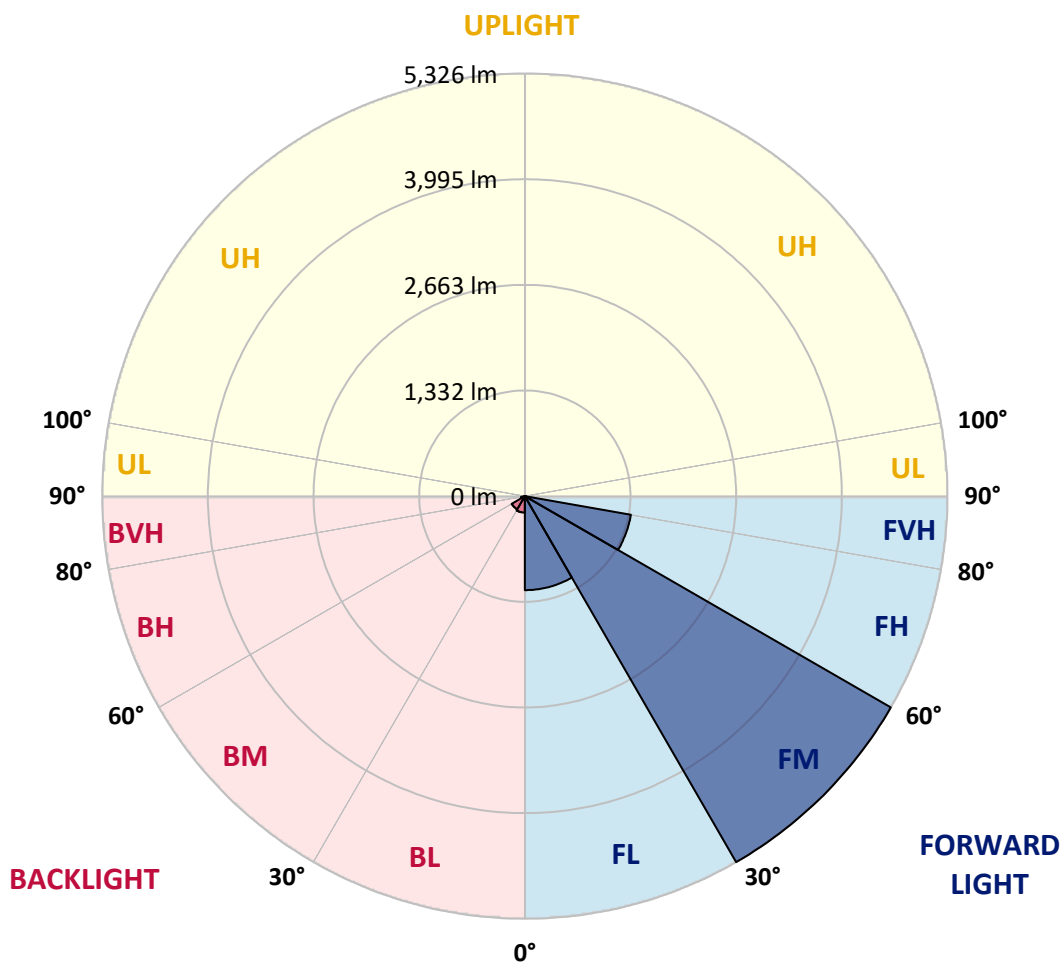
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1184.9	14.2			
FM (30°-60°)	5326.1	63.9			
FH (60°-80°)	1357.1	16.3			G1/1800
FVH (80°-90°)	16.3	0.2			G1/100
BL (0°-30°)	207.9	2.5	B1/500		
BM (30°-60°)	191.9	2.3	B0/220		
BH (60°-80°)	49.3	0.6	B0/110		G0/110
BVH (80°-90°)	1.4	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°	1950.6	1950.6	1950.6	1950.6	1950.6	1950.6	1950.6	1950.6	1950.6	1950.6	1950.6
2.5°	2339.1	2325.2	2333.2	2312.1	2273.3	2225.2	2152.9	2156.5	2099.5	2049.9	1981.2
5°	2725.4	2710.8	2706.4	2652.4	2598.3	2511.4	2404.1	2386.5	2282.1	2155.8	2011.9
7.5°	2929.1	2916.7	2926.2	2906.5	2853.2	2774.3	2638.5	2625.3	2464.0	2272.6	2060.8
10°	2835.7	2831.3	2871.4	2918.2	2961.3	2951.8	2843.0	2822.5	2641.4	2401.1	2111.2
12.5°	2584.4	2598.3	2649.4	2735.6	2868.5	2993.4	2975.9	2979.5	2822.5	2540.6	2166.7
15°	2436.9	2453.7	2482.9	2527.5	2691.1	2913.1	3026.3	3062.8	2996.3	2696.2	2232.5
17.5°	2424.5	2438.4	2442.8	2459.6	2555.2	2783.8	3005.8	3075.2	3151.1	2843.0	2306.2
20°	2520.2	2526.0	2522.4	2510.0	2544.3	2713.7	2941.6	3040.9	3278.9	2999.2	2371.2
22.5°	2700.6	2691.8	2680.8	2634.8	2632.6	2733.4	2906.5	3010.2	3354.9	3128.5	2414.3
25°	2924.0	2905.8	2890.4	2825.4	2794.8	2836.4	2937.9	3021.2	3423.5	3254.1	2445.0
27.5°	3167.9	3173.8	3135.8	3048.2	3000.0	2991.2	3035.0	3097.1	3490.0	3366.6	2461.8
30°	3428.6	3431.6	3381.9	3291.4	3247.5	3191.3	3188.4	3225.6	3561.6	3495.8	2477.8
32.5°	3725.9	3733.9	3652.8	3558.6	3482.0	3408.9	3373.1	3404.5	3690.1	3664.5	2510.7
35°	4155.3	4120.2	4010.7	3868.3	3759.5	3663.8	3609.0	3629.5	3861.0	3866.8	2576.4
37.5°	4597.8	4594.2	4472.9	4267.7	4089.5	3970.5	3877.0	3910.6	4101.2	4137.7	2681.6
40°	5010.4	5019.9	4914.8	4735.8	4506.5	4302.1	4202.0	4224.6	4420.4	4466.4	2809.4
42.5°	5279.9	5274.8	5282.8	5231.7	5001.7	4760.7	4610.2	4622.6	4791.3	4815.4	2969.3
45°	5404.0	5384.3	5453.0	5615.1	5523.8	5270.4	5098.8	5083.4	5176.2	5169.6	3114.6
47.5°	5296.7	5260.2	5417.9	5808.6	5985.3	5908.7	5663.3	5635.5	5556.7	5504.1	3265.8
50°	4762.9	4746.8	5084.2	5716.6	6275.3	6498.7	6318.3	6215.4	5896.2	5750.9	3345.4
52.5°	4255.3	4210.8	4438.6	5247.0	6146.0	6973.4	7010.6	6827.3	6178.1	5821.8	3318.4
55°	3437.4	3382.6	3630.9	4310.8	5634.1	7034.0	7497.0	7401.3	6425.0	5734.1	3263.6
57.5°	2087.9	2033.8	2399.0	3087.6	4505.8	6530.1	7377.2	7474.4	6614.8	5637.7	3227.8
60°	877.8	843.5	986.6	1473.7	2877.3	5366.8	6741.9	6984.4	6650.6	5505.5	3242.4
62.5°	456.4	441.1	449.1	590.1	1163.3	3533.8	5611.4	6033.5	6289.9	5447.1	3257.0
65°	342.5	330.8	305.3	324.2	452.0	1527.7	4032.6	4597.8	5507.7	5298.9	3158.4
67.5°	281.2	270.2	251.9	246.1	266.6	530.2	2058.6	2793.3	4315.9	4667.2	2805.0
70°	224.2	220.5	214.7	203.7	200.1	257.1	738.3	1138.5	2853.9	3291.4	2033.1
72.5°	187.0	187.7	181.1	171.6	158.5	165.8	294.3	389.2	1381.0	1578.1	851.5
75°	156.3	156.3	158.5	145.3	132.2	113.9	163.6	189.9	443.3	364.4	181.8
77.5°	122.7	124.1	133.6	122.7	105.9	71.6	89.1	101.5	131.4	105.2	66.5
80°	97.9	96.4	92.7	110.3	94.9	50.4	42.4	46.7	61.3	50.4	32.9
82.5°	68.6	67.9	65.0	74.5	73.8	37.2	27.8	28.5	37.2	32.1	20.4
85°	16.8	19.7	41.6	35.1	30.7	21.9	16.8	18.3	24.1	21.2	11.0
87.5°	7.3	7.3	19.0	22.6	14.6	9.5	7.3	8.0	12.4	12.4	6.6
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°	1950.6	1950.6	1950.6	1950.6	1950.6	1950.6	1950.6	1950.6	1950.6	1950.6	1950.6
2.5°	1957.1	1909.7	1849.8	1786.3	1721.3	1643.1	1593.5	1552.6	1520.4	1495.6	1486.8
5°	1964.4	1873.2	1737.3	1568.6	1397.0	1236.4	1112.2	1020.2	944.2	902.6	884.4
7.5°	1963.7	1842.5	1597.1	1314.5	1035.5	804.0	639.7	538.2	470.3	442.5	425.8
10°	1963.0	1802.3	1437.2	1032.6	692.3	465.9	343.2	286.3	261.4	251.9	250.5
12.5°	1984.2	1756.3	1258.3	760.2	434.5	289.9	238.8	225.7	219.8	216.9	216.2
15°	1995.8	1714.0	1069.9	536.8	292.8	229.3	213.2	207.4	205.2	203.7	203.0
17.5°	2008.3	1648.2	890.9	388.5	234.4	208.1	198.6	195.0	193.5	193.5	193.5
20°	2010.4	1577.4	713.5	286.3	208.1	194.3	184.8	181.1	178.9	177.5	177.5
22.5°	1994.4	1493.4	560.9	232.2	192.8	181.1	170.9	165.0	161.4	160.7	160.7
25°	1954.2	1374.4	430.1	203.7	180.4	168.0	155.5	149.0	146.1	146.1	146.1
27.5°	1896.5	1234.2	332.3	181.1	164.3	151.9	140.9	135.1	134.4	133.6	134.4
30°	1830.8	1099.1	254.1	160.7	145.3	135.1	126.3	123.4	124.9	124.9	125.6
32.5°	1765.1	964.0	198.6	144.6	128.5	119.8	115.4	115.4	117.6	117.6	117.6
35°	1708.8	831.8	166.5	131.4	116.8	109.5	107.4	109.5	111.0	111.7	111.7
37.5°	1677.4	717.9	146.8	119.8	107.4	101.5	100.8	103.0	105.9	108.1	108.8
40°	1665.8	630.2	135.1	111.0	98.6	94.9	94.2	97.1	102.2	105.9	106.6
42.5°	1666.5	552.8	124.9	102.2	92.7	87.6	87.6	92.0	97.1	100.8	100.8
45°	1671.6	486.4	114.7	93.5	87.6	78.9	79.6	85.4	89.1	92.7	92.7
47.5°	1676.0	433.1	103.7	84.0	75.9	71.6	73.0	77.4	82.5	88.4	88.4
50°	1650.4	395.1	92.7	73.8	66.5	65.0	67.9	71.6	78.9	84.7	85.4
52.5°	1589.1	360.8	83.3	65.7	59.9	60.6	64.3	66.5	72.3	73.0	73.8
55°	1562.1	343.2	75.9	59.9	54.8	57.0	59.2	59.9	58.4	54.8	54.8
57.5°	1556.2	331.5	68.6	54.0	50.4	53.3	52.6	48.2	43.8	39.4	38.7
60°	1562.1	315.5	62.8	46.7	46.0	46.7	44.5	36.5	30.7	27.8	26.3
62.5°	1528.5	292.1	57.7	40.2	40.2	39.4	33.6	24.8	19.7	17.5	16.8
65°	1417.5	246.1	52.6	33.6	32.9	31.4	22.6	16.8	13.1	11.0	10.2
67.5°	1199.1	190.6	47.5	27.8	26.3	21.9	14.6	11.0	7.3	6.6	5.8
70°	817.9	118.3	40.2	21.9	19.7	13.9	8.8	6.6	4.4	3.7	2.9
72.5°	296.5	68.6	33.6	16.8	13.1	8.8	5.1	2.9	2.2	2.2	1.5
75°	70.1	48.2	25.6	12.4	8.8	5.1	2.9	2.2	1.5	1.5	0.7
77.5°	32.1	37.2	16.8	7.3	5.8	3.7	2.2	1.5	0.7	0.7	0.0
80°	18.3	26.3	8.0	5.1	4.4	2.9	1.5	0.7	0.7	0.0	0.0
82.5°	9.5	14.6	5.8	4.4	3.7	2.2	1.5	0.0	0.0	0.0	0.0
85°	6.6	7.3	4.4	3.7	2.9	2.2	1.5	0.0	0.0	0.0	0.0
87.5°	5.1	5.1	4.4	3.7	2.9	2.2	0.7	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)