

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: P674645

Luminaire Tested: **CCP-SA-2E-850-U-T2R-HSS**

Issue Date: 04/16/2023



Test Information

Test Method: LM-79-08
Report Number: P674645
Test Lab: INNOVATION CENTER(G2)
Issue Date: 04/16/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCP-SA-2E-850-U-T2R-HSS
Description: INVUE CLEAR CURVE POLE MOUNT Light Square Luminaire @1050mA w/ T2R distribution lens and House Side Shield
Light Source: (32) 5000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

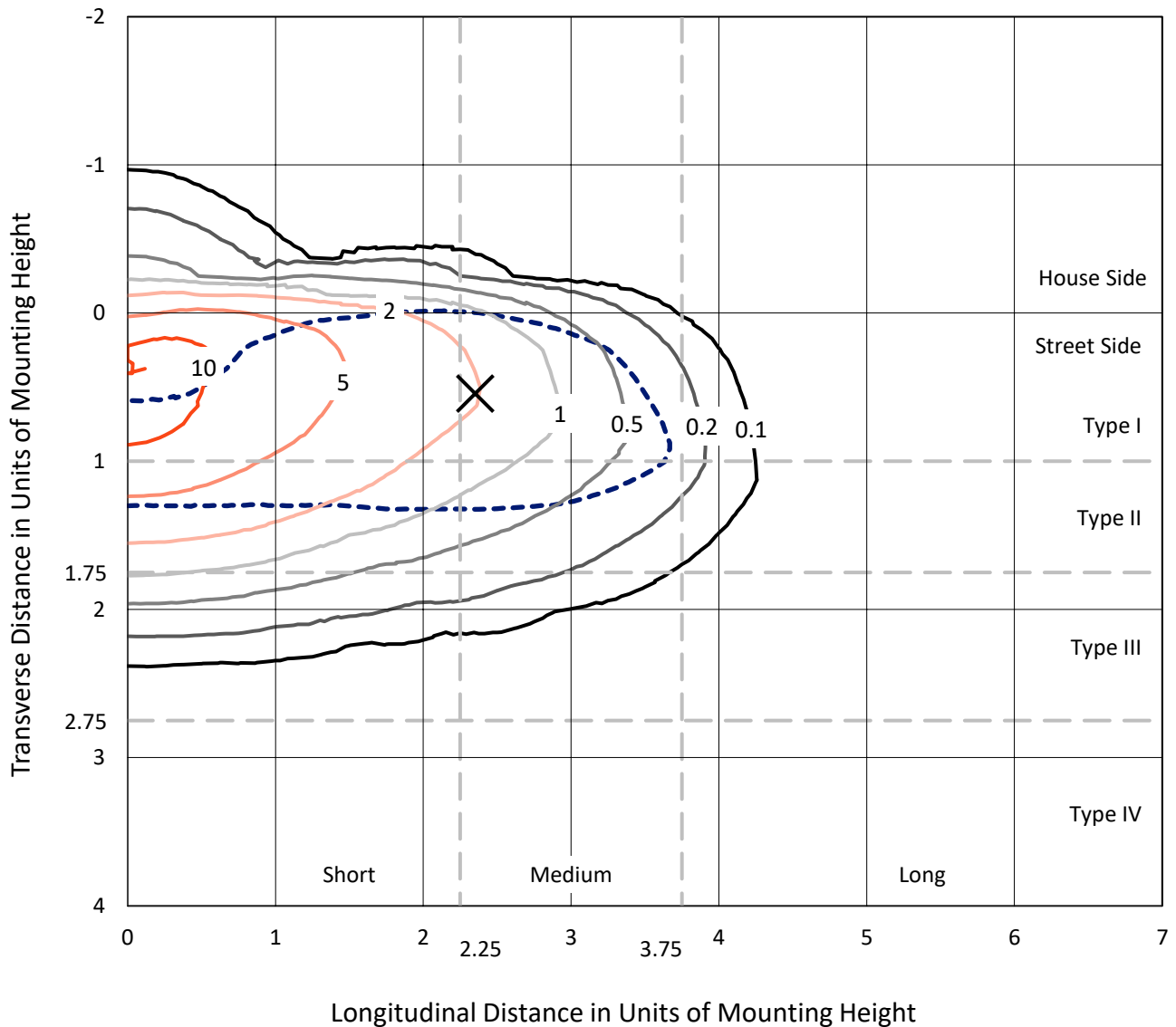
Lumens per Lamp: N/A
Luminaire Lumens: 9660.7 lumens
Efficiency: N/A
Efficacy: 90.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G2

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

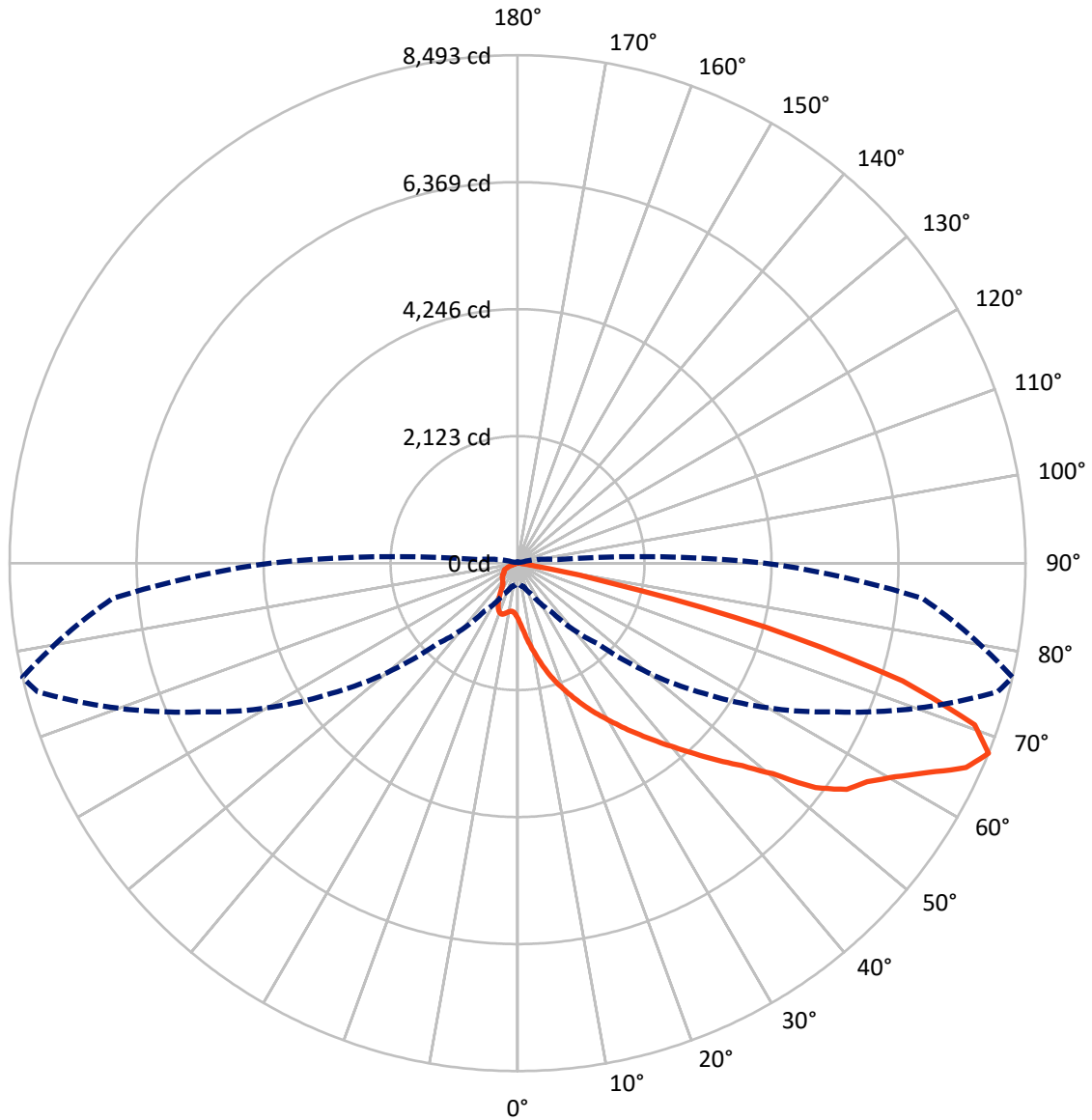
✕ Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 11.9 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	603.7	0.0	603.7
	% Fixture	6.2	0.0	6.2
Street Side	Lumens	9057.0	0.0	9057.0
	% Fixture	93.8	0.0	93.8
Total	Lumens	9660.7	0.0	9660.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	108.8	1.1
10°-20°	402.1	4.2
20°-30°	785.7	8.1
30°-40°	1373.6	14.2
40°-50°	2003.3	20.7
50°-60°	2342.5	24.2
60°-70°	1898.9	19.7
70°-80°	713.4	7.4
80°-90°	32.4	0.3
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°	9660.7	100.0
0°-180°	9660.7	100.0

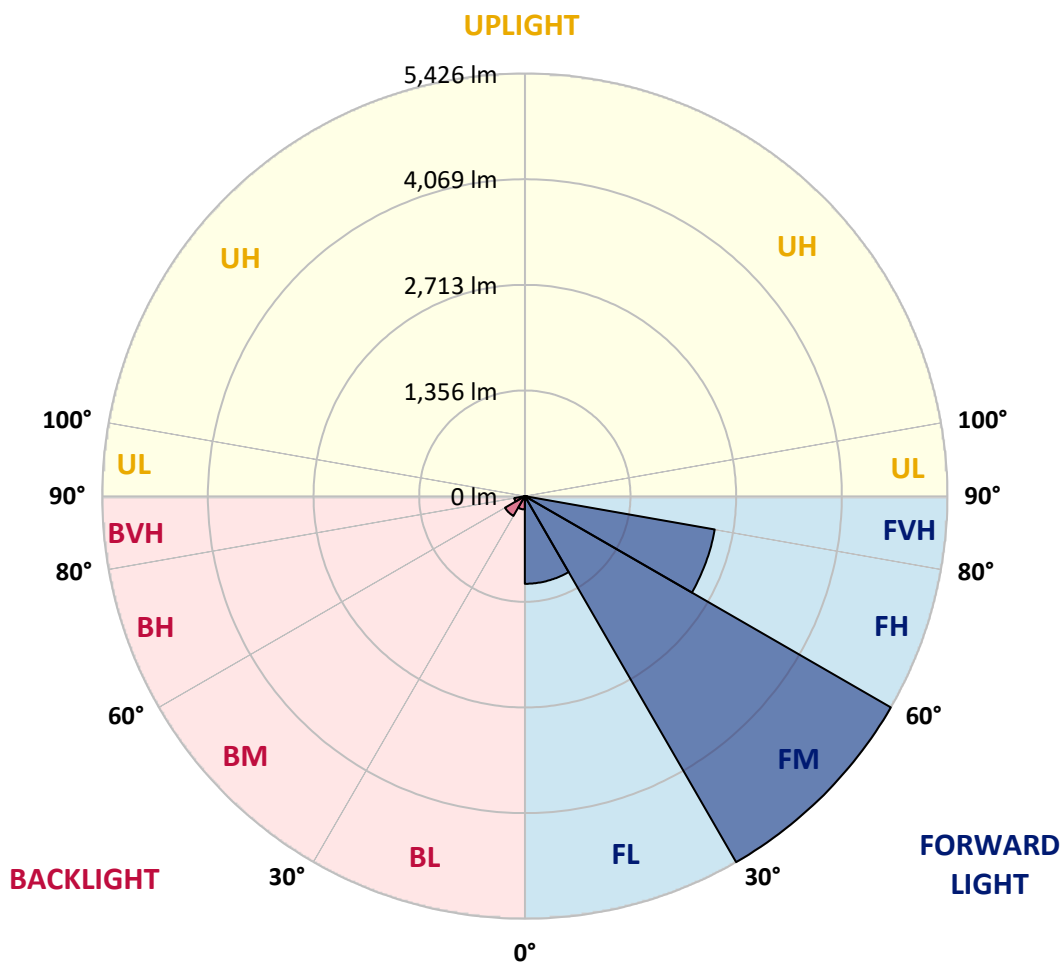


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1125.4	11.6			
FM (30°-60°)	5425.7	56.2			
FH (60°-80°)	2475.4	25.6			G2/5000
FVH (80°-90°)	30.6	0.3			G1/100
BL (0°-30°)	171.2	1.8	B1/500		
BM (30°-60°)	293.7	3.0	B1/1000		
BH (60°-80°)	136.9	1.4	B1/500		G1/500
BVH (80°-90°)	1.9	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-G2
 Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	925.3	925.3	925.3	925.3	925.3	925.3	925.3	925.3	925.3	925.3	925.3
2.5°	1389.3	1338.7	1348.3	1327.4	1300.3	1237.5	1171.2	1105.0	1045.7	1032.6	973.3
5°	1779.1	1763.4	1746.8	1732.9	1676.2	1597.7	1478.2	1326.5	1189.6	1166.0	1043.0
7.5°	2081.7	2058.2	2073.0	2030.3	1971.0	1895.1	1743.3	1581.1	1370.1	1335.2	1144.2
10°	2305.0	2291.9	2298.9	2278.8	2250.0	2174.2	2024.2	1821.0	1576.8	1510.5	1257.6
12.5°	2472.4	2475.0	2505.6	2507.3	2483.8	2421.8	2263.1	2051.2	1764.3	1705.0	1383.2
15°	2594.5	2597.1	2634.6	2674.8	2701.8	2669.5	2525.6	2288.4	1984.9	1903.8	1514.9
17.5°	2614.6	2616.3	2682.6	2763.7	2847.4	2875.3	2764.6	2523.9	2186.4	2093.9	1665.7
20°	2627.7	2642.5	2701.8	2795.1	2927.7	3014.0	2953.8	2749.8	2381.7	2274.5	1814.0
22.5°	2786.4	2786.4	2821.3	2887.6	2993.1	3128.3	3116.0	2957.3	2571.9	2465.5	1961.4
25°	3123.0	3123.0	3089.0	3071.6	3128.3	3234.7	3265.2	3178.8	2789.0	2663.4	2116.6
27.5°	3568.7	3568.7	3515.5	3387.3	3338.4	3382.9	3415.2	3371.6	2989.6	2865.8	2280.6
30°	4030.9	4046.6	3954.1	3791.1	3620.1	3586.1	3554.7	3545.1	3203.3	3063.7	2447.1
32.5°	4494.9	4493.1	4378.0	4174.8	3951.5	3831.2	3729.1	3717.8	3430.0	3293.1	2605.0
35°	4865.5	4866.4	4745.1	4536.7	4278.6	4125.1	3961.1	3907.9	3678.6	3525.9	2793.4
37.5°	5186.4	5168.1	5037.3	4839.3	4598.6	4439.9	4235.8	4097.2	3935.8	3780.6	2981.7
40°	5370.5	5346.0	5218.7	5030.3	4848.1	4726.8	4547.2	4325.7	4218.4	4050.9	3196.3
42.5°	5397.5	5376.6	5292.0	5178.6	5029.5	4923.1	4875.1	4583.8	4514.9	4363.2	3452.7
45°	5321.6	5287.6	5259.7	5200.4	5158.5	5107.1	5172.5	4858.5	4855.0	4704.2	3706.5
47.5°	5133.2	5087.0	5094.0	5159.4	5206.5	5252.7	5456.8	5218.7	5197.8	5056.5	4039.6
50°	4811.4	4788.8	4865.5	4994.6	5181.2	5366.1	5740.2	5586.7	5669.6	5537.0	4499.2
52.5°	4157.3	4185.3	4414.6	4725.1	5047.8	5419.3	6006.2	6136.2	6348.1	6239.1	4961.4
55°	3372.4	3362.0	3668.1	4219.3	4734.7	5385.3	6122.2	6459.7	6792.9	6678.6	5218.7
57.5°	2716.6	2734.9	2941.6	3486.7	4203.6	5122.8	6149.2	6628.9	6971.6	6895.8	5456.8
60°	2039.0	2056.4	2244.8	2719.2	3497.2	4575.1	5926.0	6688.2	7307.4	7249.8	5837.0
62.5°	1297.7	1320.4	1509.6	1971.0	2673.0	3723.9	5424.5	6626.3	7658.0	7706.0	6355.9
65°	638.4	658.4	798.0	1151.2	1787.0	2784.6	4725.1	6389.9	8104.5	8241.4	6771.9
67.5°	353.2	362.8	410.8	586.1	996.8	1909.9	3797.2	5885.0	8309.5	8492.6	6799.8
70°	274.7	277.3	295.6	341.9	485.8	1120.7	2700.9	5044.3	7884.7	8106.3	6233.8
72.5°	231.1	234.6	243.3	259.0	303.5	583.4	1697.1	3898.3	6634.1	6734.4	4822.8
75°	169.2	174.4	198.8	212.8	239.8	354.1	748.3	2342.5	4384.1	4285.5	2698.3
77.5°	142.2	146.5	152.6	172.7	198.0	241.6	262.5	982.0	1784.3	1551.5	708.2
80°	96.8	102.0	118.6	129.1	167.4	159.6	109.0	263.4	358.4	292.2	136.0
82.5°	68.9	73.3	82.0	105.5	121.2	84.6	59.3	80.2	86.3	82.0	44.5
85°	21.8	27.9	59.3	87.2	65.4	28.8	37.5	30.5	27.0	26.2	17.4
87.5°	4.4	4.4	29.7	34.9	26.2	14.8	13.1	9.6	12.2	12.2	9.6
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°	925.3	925.3	925.3	925.3	925.3	925.3	925.3	925.3	925.3	925.3	925.3
2.5°	945.4	906.1	849.4	796.2	742.2	703.8	676.8	649.7	639.3	634.9	623.6
5°	987.2	912.2	799.7	709.0	642.7	600.9	575.6	553.8	539.8	535.5	529.4
7.5°	1047.4	939.3	777.9	673.3	607.0	561.6	520.6	473.6	436.1	421.2	415.1
10°	1112.8	980.3	781.4	666.3	578.2	478.8	387.2	311.3	278.2	266.0	257.3
12.5°	1208.7	1025.6	796.2	658.4	491.9	341.9	247.7	216.3	208.4	206.7	204.9
15°	1304.7	1089.3	820.7	606.1	367.2	232.9	205.8	194.5	190.1	185.8	185.8
17.5°	1401.5	1150.3	830.2	504.1	253.8	201.5	187.5	177.9	170.9	167.4	164.8
20°	1510.5	1214.8	802.3	379.4	203.2	184.0	168.3	157.0	150.9	147.4	144.8
22.5°	1628.2	1278.5	741.3	264.2	184.9	165.7	150.9	139.5	133.4	129.9	129.1
25°	1739.0	1333.5	643.6	198.8	166.6	148.3	134.3	124.7	120.4	116.9	116.0
27.5°	1853.2	1380.5	516.3	175.3	151.7	134.3	120.4	112.5	108.1	105.5	104.7
30°	1964.9	1412.8	384.6	160.5	138.7	121.2	109.0	102.9	98.5	95.9	95.1
32.5°	2080.0	1431.1	259.9	147.4	125.6	109.9	99.4	93.3	90.7	88.1	88.1
35°	2190.7	1428.5	187.5	135.2	115.1	99.4	89.8	85.5	84.6	82.0	82.0
37.5°	2312.0	1410.2	159.6	123.8	103.8	89.8	82.0	79.4	78.5	76.7	75.9
40°	2449.8	1369.2	145.6	115.1	94.2	82.0	75.0	73.3	72.4	70.6	70.6
42.5°	2600.6	1316.0	137.8	105.5	86.3	74.1	68.9	66.3	65.4	63.7	63.7
45°	2775.9	1265.4	132.6	95.9	79.4	68.0	62.8	60.2	59.3	57.6	57.6
47.5°	3014.9	1236.7	123.8	87.2	71.5	61.9	56.7	54.9	53.2	51.5	51.5
50°	3343.7	1202.6	112.5	78.5	65.4	55.8	52.3	49.7	48.8	47.1	47.1
52.5°	3614.0	1130.3	101.2	69.8	58.4	51.5	48.0	46.2	44.5	43.6	43.6
55°	3709.1	1045.7	89.8	62.8	53.2	48.0	44.5	42.7	41.9	41.0	41.0
57.5°	3860.8	1018.6	79.4	55.8	48.0	44.5	41.0	40.1	39.2	38.4	37.5
60°	4119.8	1034.3	69.8	49.7	43.6	40.1	37.5	36.6	34.9	33.1	33.1
62.5°	4371.0	1015.1	59.3	43.6	37.5	35.8	33.1	31.4	27.9	25.3	23.5
65°	4432.1	886.9	51.5	36.6	31.4	29.7	27.0	23.5	18.3	14.8	14.8
67.5°	4136.4	674.1	44.5	31.4	26.2	24.4	19.2	15.7	11.3	8.7	8.7
70°	3413.4	427.3	36.6	24.4	21.8	16.6	12.2	11.3	7.8	7.0	6.1
72.5°	2462.8	233.7	30.5	20.1	15.7	10.5	8.7	7.0	5.2	3.5	3.5
75°	1247.1	109.9	22.7	15.7	10.5	7.0	5.2	3.5	3.5	2.6	2.6
77.5°	353.2	50.6	14.8	10.5	7.0	4.4	3.5	2.6	2.6	1.7	1.7
80°	69.8	25.3	9.6	7.0	5.2	3.5	2.6	1.7	1.7	0.9	0.9
82.5°	25.3	13.1	7.0	5.2	4.4	3.5	1.7	0.9	0.9	0.0	0.0
85°	13.1	7.0	5.2	4.4	3.5	2.6	1.7	0.9	0.0	0.0	0.0
87.5°	7.0	5.2	4.4	4.4	3.5	2.6	1.7	0.9	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)