

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: P672197

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

Issue Date: 04/16/2023



Test Information

Test Method: LM-79-08
Report Number: P672197
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
Description: INVUE CLEAR CURVE POLE MOUNT LIGHT SQUARE LUMINAIRE @1050mA w/ T2R distribution lens
Light Source: (32) 5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

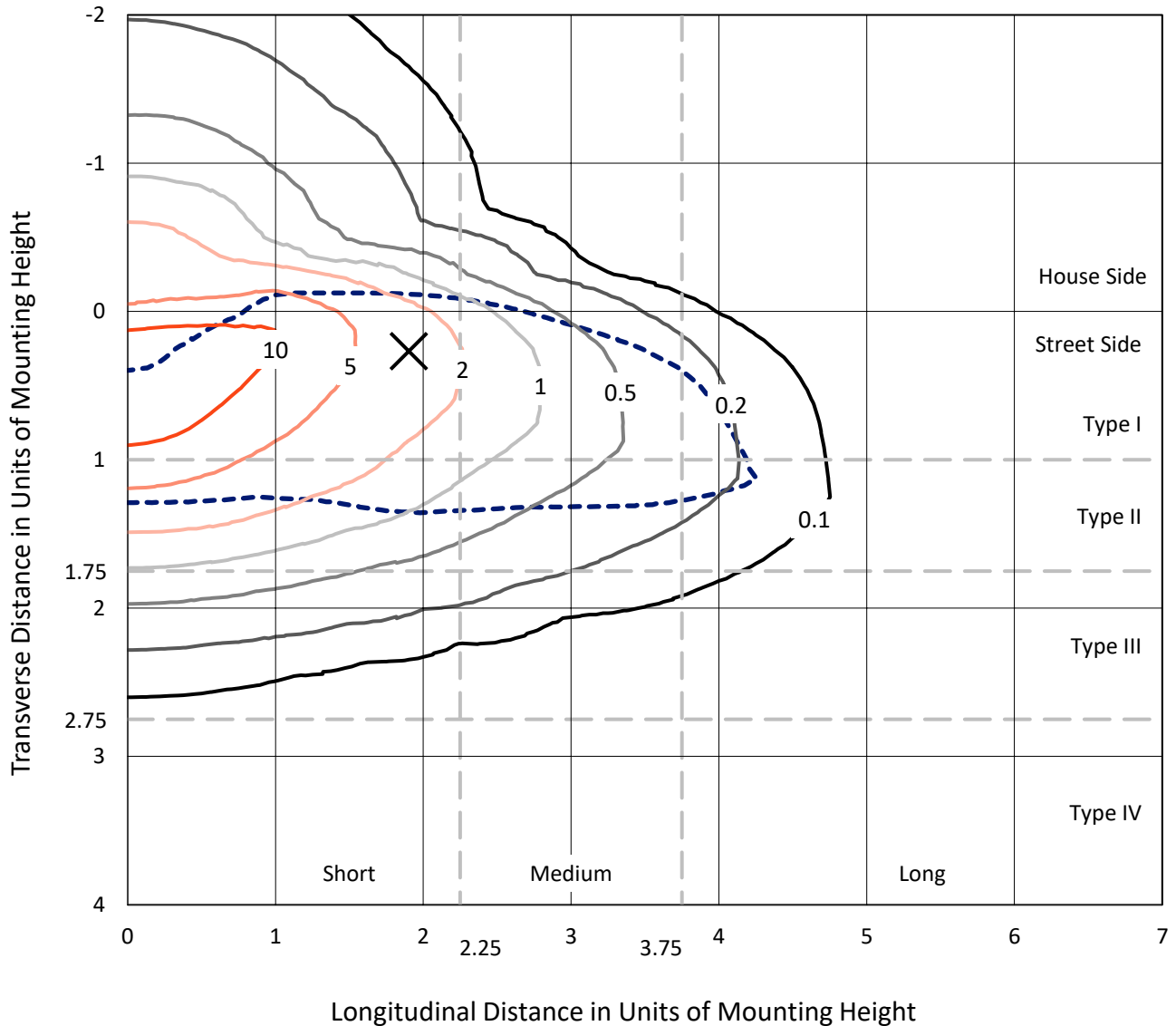
Lumens per Lamp: N/A
Luminaire Lumens: 12119.2 lumens
Efficiency: N/A
Efficacy: 113.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

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

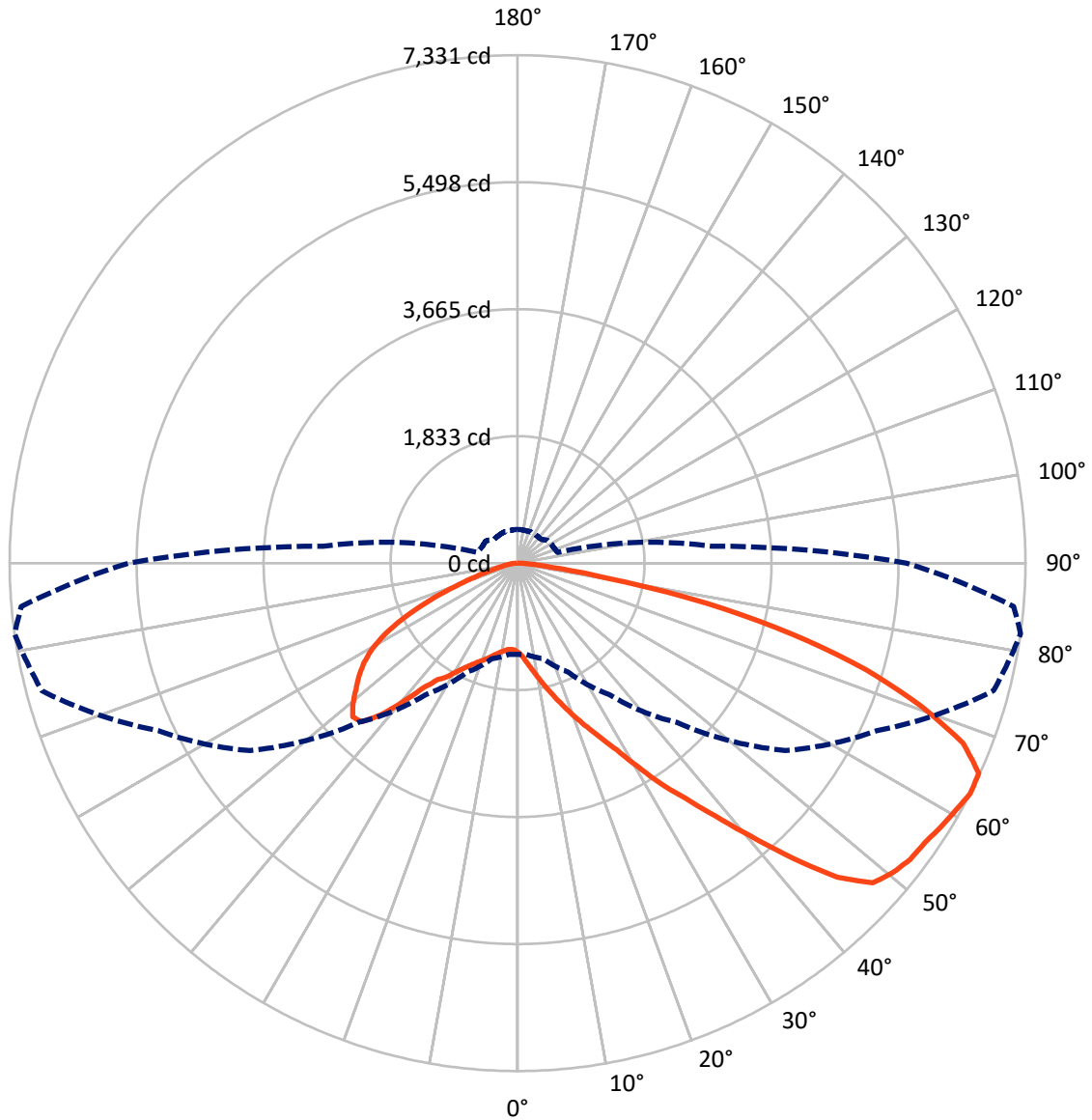
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 14.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 82-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2283.2	0.0	2283.2
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	9836.0	0.0	9836.0
	% Fixture	81.2	0.0	81.2
Total	Lumens	12119.2	0.0	12119.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	142.6	1.2
10°-20°	537.9	4.4
20°-30°	1114.0	9.2
30°-40°	1890.7	15.6
40°-50°	2574.7	21.2
50°-60°	2606.2	21.5
60°-70°	2054.0	16.9
70°-80°	1011.8	8.3
80°-90°	187.2	1.5
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°	12119.2	100.0
0°-180°	12119.2	100.0



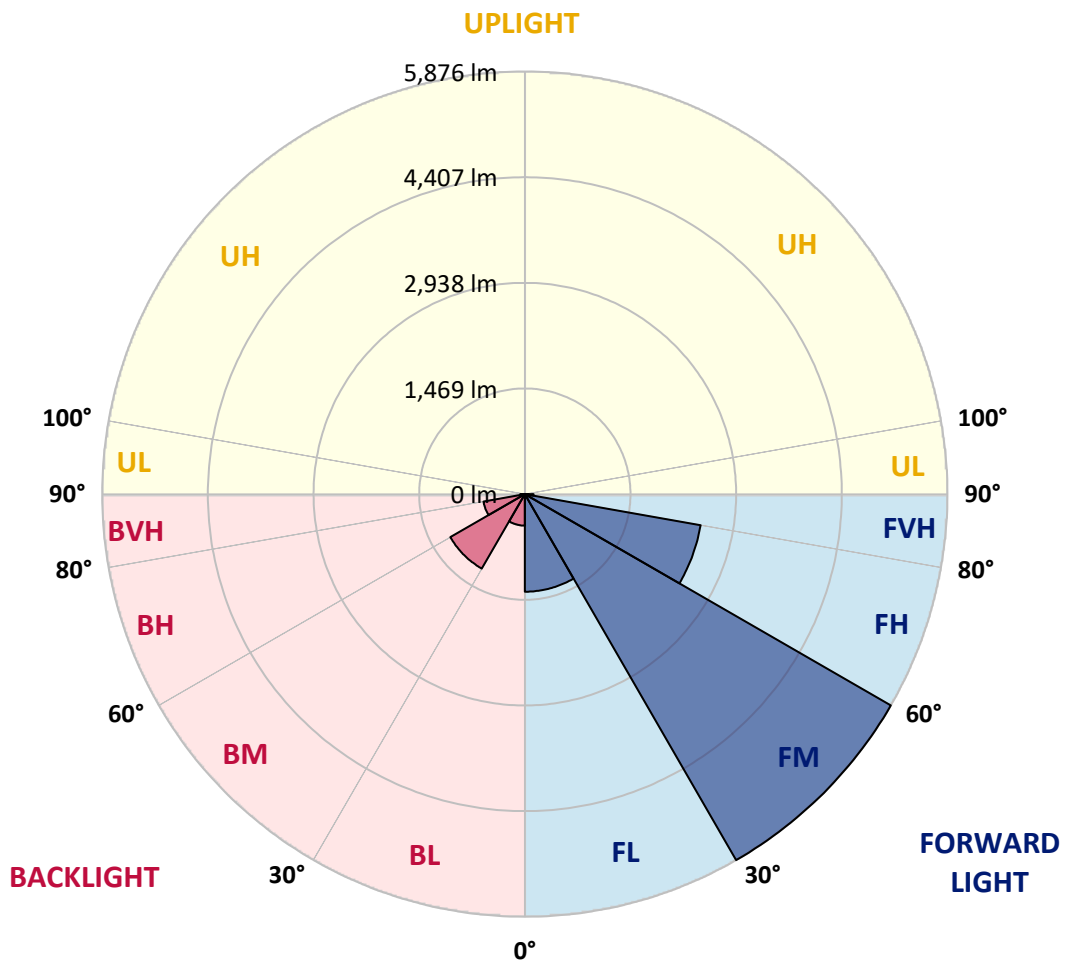
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1356.4	11.2			
FM (30°-60°)	5875.8	48.5			
FH (60°-80°)	2482.2	20.5			G2/5000
FVH (80°-90°)	121.6	1.0			G2/225
BL (0°-30°)	438.1	3.6	B1/500		
BM (30°-60°)	1195.9	9.9	B2/2500		
BH (60°-80°)	583.6	4.8	B2/1000		G2/1000
BVH (80°-90°)	65.6	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°	85°
0°	1288.8	1288.8	1288.8	1288.8	1288.8	1288.8	1288.8	1288.8	1288.8	1288.8	1288.8
2.5°	1716.4	1690.2	1676.2	1660.5	1616.9	1589.0	1536.6	1475.5	1404.8	1344.6	1333.3
5°	2078.5	2052.3	2055.8	2017.4	1953.7	1894.4	1796.6	1681.5	1547.1	1444.1	1408.3
7.5°	2334.1	2305.3	2312.3	2296.6	2245.1	2179.7	2055.8	1907.4	1711.1	1558.4	1500.8
10°	2505.2	2508.7	2513.9	2507.8	2474.6	2428.4	2305.3	2141.3	1897.0	1693.7	1615.1
12.5°	2698.9	2708.5	2706.7	2709.3	2691.9	2655.2	2534.8	2380.4	2095.1	1839.4	1737.3
15°	2945.8	2936.2	2944.1	2955.4	2936.2	2896.1	2789.6	2606.4	2302.7	2001.7	1875.2
17.5°	3216.3	3196.2	3217.2	3205.8	3191.9	3165.7	3048.8	2853.3	2517.4	2177.1	2028.7
20°	3450.2	3437.1	3448.4	3450.2	3452.8	3447.5	3327.1	3119.5	2742.5	2368.2	2194.5
22.5°	3712.8	3706.7	3705.0	3705.8	3708.4	3714.5	3632.5	3410.9	2992.1	2568.9	2373.4
25°	4080.2	4074.1	4033.9	3989.4	3963.2	3982.4	3939.7	3741.6	3267.8	2794.0	2569.7
27.5°	4492.0	4482.4	4429.2	4316.6	4232.9	4246.8	4242.5	4106.3	3585.4	3052.3	2805.3
30°	4919.6	4896.0	4822.7	4664.8	4533.0	4508.6	4520.8	4475.4	3985.0	3395.2	3133.4
32.5°	5300.9	5257.3	5160.4	5000.7	4843.7	4773.0	4774.7	4794.8	4419.6	3794.8	3477.2
35°	5533.9	5505.1	5432.6	5271.2	5095.8	5048.7	5035.6	5136.0	4818.4	4164.8	3785.2
37.5°	5659.5	5631.6	5553.9	5423.9	5291.3	5272.1	5296.5	5451.8	5271.2	4626.4	4204.1
40°	5636.8	5607.2	5556.6	5465.8	5378.5	5393.4	5501.6	5741.5	5766.0	5178.7	4800.9
42.5°	5450.1	5418.7	5414.3	5408.2	5367.2	5432.6	5628.1	5953.6	6220.6	5816.6	5523.4
45°	5120.3	5101.1	5123.8	5228.5	5279.9	5406.5	5687.4	6056.5	6620.2	6464.9	6206.6
47.5°	4702.3	4691.0	4742.4	4908.2	5074.9	5326.2	5726.7	6084.5	6895.1	6895.1	6654.3
50°	4234.6	4230.2	4298.3	4539.1	4800.0	5178.7	5722.3	6110.6	7015.5	7021.6	6812.2
52.5°	3581.9	3604.6	3786.1	4103.7	4458.0	4947.5	5661.3	6183.9	7083.6	7097.5	6917.8
55°	2829.8	2851.6	3125.6	3553.1	4006.9	4666.5	5478.9	6162.1	7096.6	7128.1	6978.0
57.5°	2259.1	2263.5	2434.5	2942.3	3504.3	4307.0	5268.6	6017.3	7058.3	7195.2	7070.5
60°	1767.8	1781.8	1896.1	2298.4	2921.4	3843.7	5033.9	5874.2	7080.1	7258.9	7154.2
62.5°	1316.7	1320.2	1426.7	1738.2	2321.0	3253.0	4715.4	5721.5	7110.6	7330.5	7188.3
65°	857.7	856.9	959.8	1240.8	1733.8	2615.1	4215.4	5482.4	7113.2	7314.8	7032.1
67.5°	545.4	548.8	593.4	770.5	1160.5	1973.8	3534.8	5038.2	6989.3	6934.3	6463.2
70°	442.4	443.3	457.2	503.5	706.8	1349.0	2657.0	4343.7	6597.5	6176.1	5617.6
72.5°	394.4	395.3	402.3	407.5	471.2	810.6	1743.4	3526.9	5901.2	5264.2	4660.4
75°	354.3	354.3	358.6	353.4	386.6	508.7	989.5	2651.8	4860.2	4099.4	3520.8
77.5°	310.6	309.8	309.8	307.1	334.2	371.7	495.6	1850.7	3500.8	2795.7	2283.5
80°	263.5	261.8	264.4	262.6	288.8	281.8	288.8	1142.2	1897.8	1281.8	972.0
82.5°	205.1	205.1	212.9	214.7	238.2	204.2	203.3	541.9	720.7	479.0	358.6
85°	107.3	120.4	162.3	169.3	179.8	128.3	149.2	253.0	288.8	183.2	130.9
87.5°	32.3	34.0	99.5	111.7	110.8	64.6	91.6	122.2	135.2	81.1	53.2
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°	1288.8	1288.8	1288.8	1288.8	1288.8	1288.8	1288.8	1288.8	1288.8	1288.8	1288.8
2.5°	1304.5	1274.0	1209.4	1151.8	1108.2	1066.3	1037.5	1022.7	1003.5	1006.1	1000.0
5°	1344.6	1281.8	1167.5	1075.0	1013.1	965.9	937.1	922.3	908.4	901.4	906.6
7.5°	1404.8	1307.1	1147.4	1035.7	971.2	931.0	915.3	911.0	907.5	904.9	909.2
10°	1482.5	1351.6	1143.9	1021.8	962.4	938.0	931.9	929.3	925.8	922.3	924.9
12.5°	1561.9	1400.5	1156.2	1025.3	976.4	958.1	950.2	946.7	938.0	933.7	934.5
15°	1661.4	1459.8	1172.7	1039.2	994.7	971.2	960.7	951.1	937.1	931.0	933.7
17.5°	1767.8	1530.5	1195.4	1052.3	1001.7	972.9	952.0	938.0	924.1	915.3	916.2
20°	1888.3	1600.3	1215.5	1056.7	998.2	958.1	932.8	916.2	897.9	888.3	885.7
22.5°	2013.0	1673.6	1231.2	1053.2	979.0	932.8	904.0	883.9	862.1	847.3	848.1
25°	2164.9	1773.1	1244.3	1041.0	953.7	899.6	867.3	842.0	819.3	805.4	806.3
27.5°	2347.2	1885.6	1260.0	1021.8	923.2	863.8	826.3	801.0	779.2	766.1	764.4
30°	2590.7	2032.2	1277.4	998.2	884.8	824.6	787.9	761.8	740.8	728.6	728.6
32.5°	2864.7	2211.1	1289.7	970.3	842.0	782.7	749.5	728.6	712.9	696.3	694.6
35°	3102.9	2349.8	1327.2	948.5	804.5	743.4	720.7	705.9	682.4	666.6	664.0
37.5°	3452.8	2594.2	1438.0	942.4	759.1	712.9	708.5	680.6	653.6	623.9	621.3
40°	4016.5	3017.4	1567.1	912.7	712.0	696.3	692.0	654.4	590.7	572.4	568.9
42.5°	4733.7	3526.9	1581.1	826.3	678.9	682.4	669.3	596.0	568.0	554.1	550.6
45°	5381.2	3940.5	1501.7	738.2	654.4	661.4	634.4	574.2	558.4	545.4	541.9
47.5°	5745.0	4067.9	1351.6	671.9	636.1	643.1	578.5	563.7	548.0	534.9	531.4
50°	5847.1	3957.1	1177.1	633.5	622.1	624.8	563.7	555.0	541.0	530.5	525.3
52.5°	5867.2	3791.3	1015.7	610.8	611.7	588.1	550.6	543.6	534.9	518.3	512.2
55°	5875.9	3642.1	870.8	596.8	604.7	541.0	536.6	531.4	524.4	507.0	503.5
57.5°	5898.6	3451.0	757.4	586.4	596.0	519.2	520.9	517.4	508.7	500.9	499.1
60°	5834.0	3186.6	670.1	575.9	583.8	500.9	502.6	504.3	496.5	494.7	493.9
62.5°	5617.6	2811.4	596.0	561.9	558.4	482.5	482.5	489.5	482.5	485.2	485.2
65°	5171.7	2333.3	529.7	535.8	519.2	462.5	461.6	473.8	463.3	474.7	475.6
67.5°	4411.7	1766.1	461.6	494.7	478.2	441.5	445.0	454.6	440.7	464.2	464.2
70°	3492.0	1201.5	390.9	437.2	436.3	418.0	429.3	428.4	412.7	447.6	441.5
72.5°	2601.1	771.4	318.5	366.5	381.3	392.7	413.6	395.3	380.4	400.5	382.2
75°	1817.6	483.4	251.3	289.7	317.6	364.7	394.4	357.8	335.9	329.8	324.6
77.5°	1088.1	308.9	198.1	220.8	247.8	331.6	370.0	318.5	285.3	281.8	271.4
80°	501.7	201.6	151.0	164.9	176.3	284.5	336.8	272.2	232.1	228.6	216.4
82.5°	226.9	132.6	112.6	117.8	118.7	226.0	284.5	215.5	177.1	287.1	248.7
85°	105.6	85.5	73.3	69.8	70.7	151.0	206.8	148.3	201.6	157.1	119.5
87.5°	45.4	43.6	37.5	29.7	27.0	32.3	79.4	62.0	88.1	34.9	23.6
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)