

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: P672108

Luminaire Tested: **CCP-SA-2D-735-U-T2R**

Issue Date: 04/16/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P672108  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 04/16/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCP-SA-2D-735-U-T2R  
Description: INVUE CLEAR CURVE POLE MOUNT LIGHT SQUARE LUMINAIRE @800mA w/ T2R distribution lens  
Light Source: (32) 3500K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

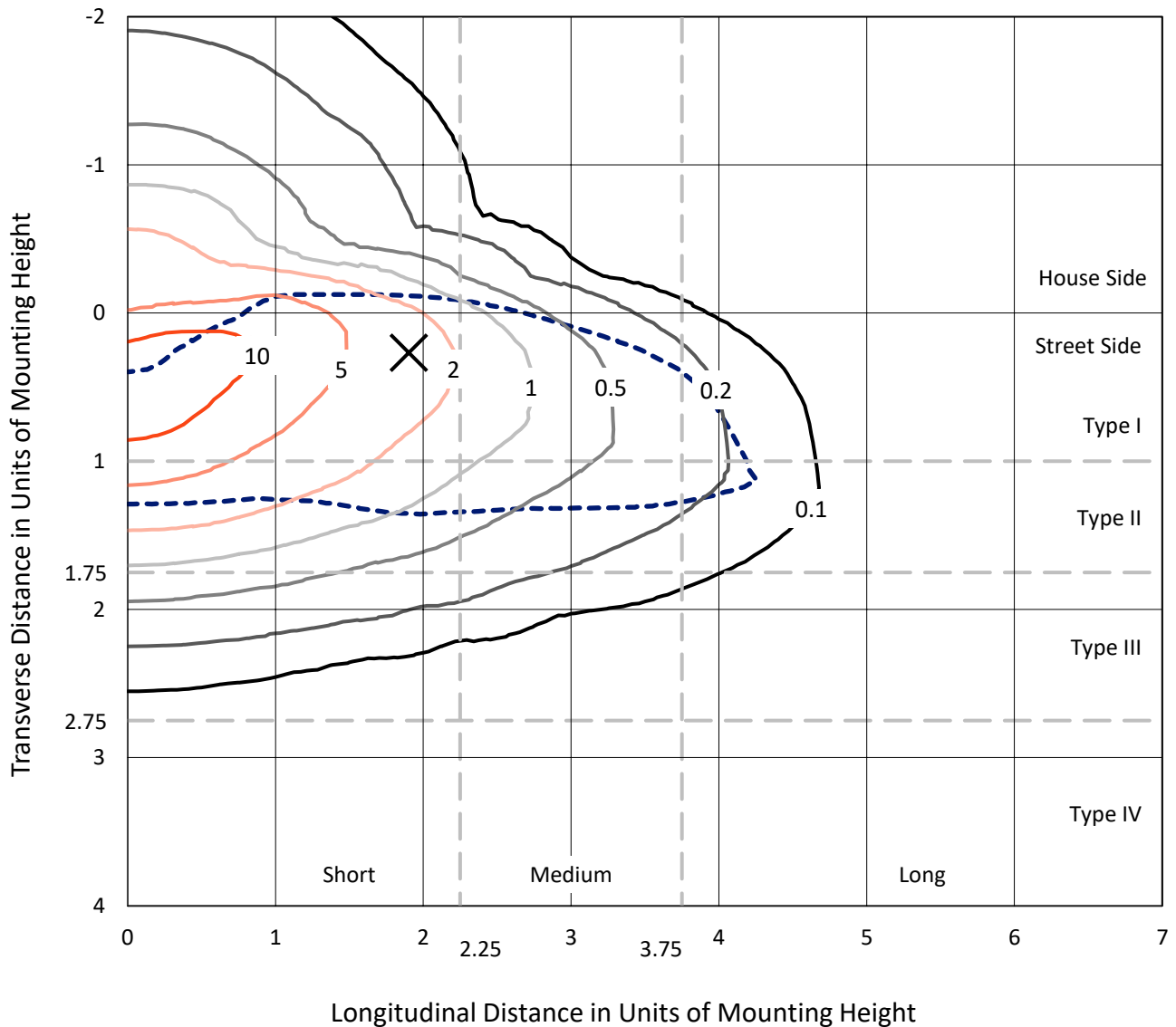
Lumens per Lamp: N/A  
Luminaire Lumens: 11173.4 lumens  
Efficiency: N/A  
Efficacy: 138.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G2

Input Watts (W): 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

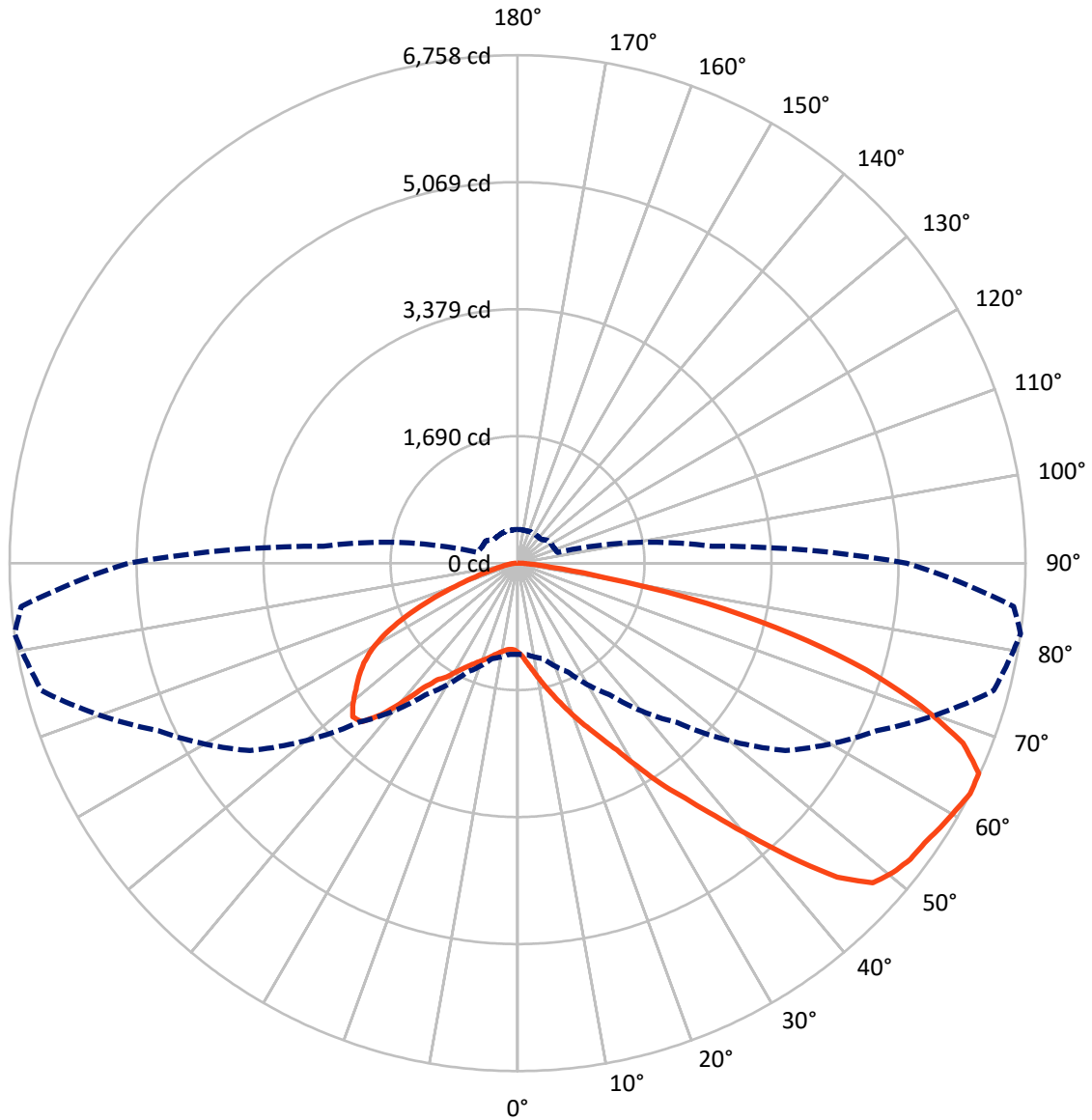
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 13.1 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
<b>House Side</b>	Lumens	2105.0	0.0	2105.0
	% Fixture	18.8	0.0	18.8
<b>Street Side</b>	Lumens	9068.4	0.0	9068.4
	% Fixture	81.2	0.0	81.2
<b>Total</b>	Lumens	11173.4	0.0	11173.4
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	131.5	1.2
10°-20°	495.9	4.4
20°-30°	1027.0	9.2
30°-40°	1743.2	15.6
40°-50°	2373.8	21.2
50°-60°	2402.8	21.5
60°-70°	1893.7	16.9
70°-80°	932.9	8.3
80°-90°	172.6	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°	11173.4	100.0
0°-180°	11173.4	100.0

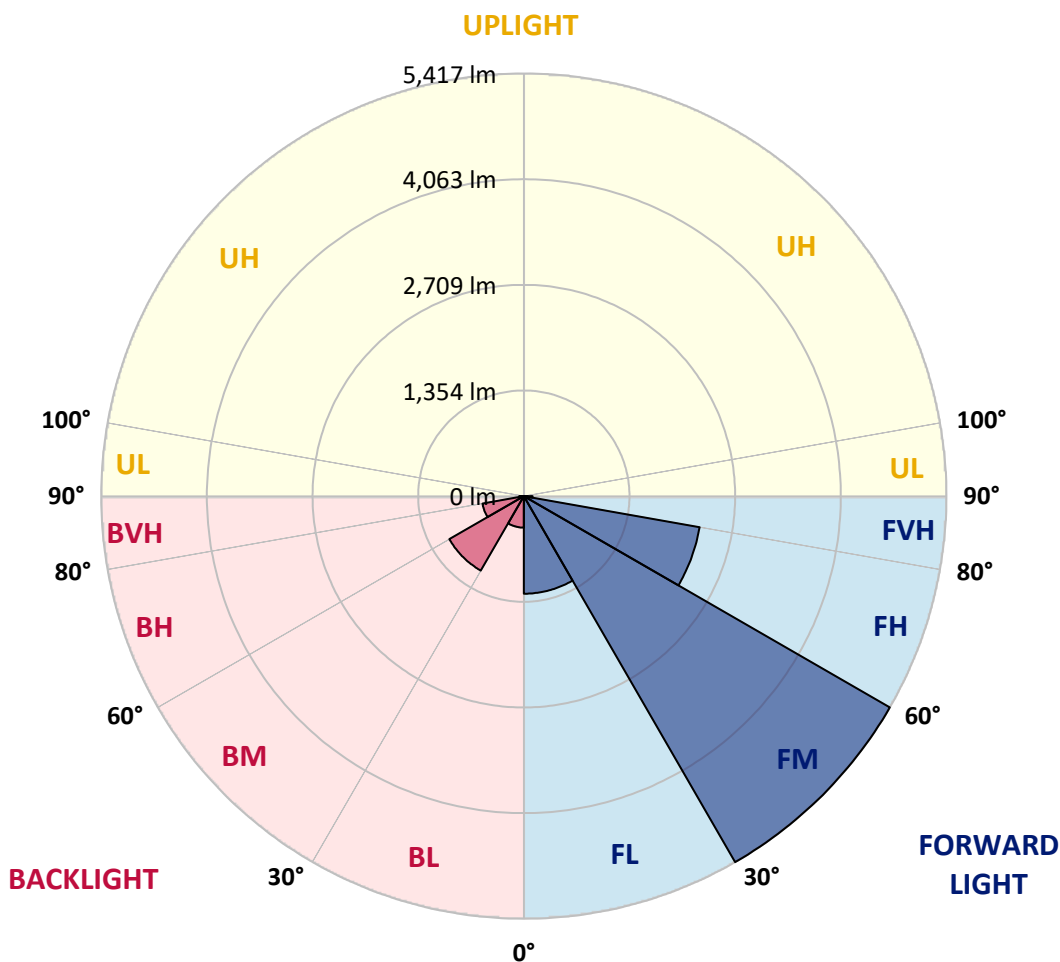


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1250.6	11.2			
FM (30°-60°)	5417.2	48.5			
FH (60°-80°)	2288.5	20.5			G2/5000
FVH (80°-90°)	112.1	1.0			G2/225
BL (0°-30°)	403.9	3.6	B1/500		
BM (30°-60°)	1102.6	9.9	B2/2500		
BH (60°-80°)	538.1	4.8	B2/1000		G2/1000
BVH (80°-90°)	60.5	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°	1188.2	1188.2	1188.2	1188.2	1188.2	1188.2	1188.2	1188.2	1188.2	1188.2	1188.2
2.5°	1582.4	1558.3	1545.4	1530.9	1490.7	1465.0	1416.7	1360.4	1295.2	1239.7	1229.2
5°	1916.3	1892.1	1895.3	1860.0	1801.2	1746.5	1656.4	1550.2	1426.3	1331.4	1298.4
7.5°	2152.0	2125.4	2131.9	2117.4	2069.9	2009.6	1895.3	1758.6	1577.6	1436.8	1383.7
10°	2309.7	2312.9	2317.7	2312.1	2281.5	2238.9	2125.4	1974.2	1748.9	1561.5	1489.1
12.5°	2488.2	2497.1	2495.5	2497.9	2481.8	2448.0	2337.0	2194.6	1931.6	1695.8	1601.7
15°	2715.9	2707.1	2714.3	2724.8	2707.1	2670.1	2571.9	2403.0	2123.0	1845.5	1728.8
17.5°	2965.3	2946.8	2966.1	2955.6	2942.8	2918.6	2810.8	2630.6	2320.9	2007.2	1870.4
20°	3180.9	3168.8	3179.3	3180.9	3183.3	3178.5	3067.5	2876.0	2528.5	2183.4	2023.3
22.5°	3423.1	3417.4	3415.8	3416.6	3419.0	3424.7	3349.0	3144.7	2758.6	2368.4	2188.2
25°	3761.7	3756.1	3719.1	3678.1	3653.9	3671.6	3632.2	3449.6	3012.8	2575.9	2369.2
27.5°	4141.4	4132.6	4083.5	3979.7	3902.5	3915.4	3911.4	3785.9	3305.6	2814.1	2586.4
30°	4535.6	4513.9	4446.3	4300.7	4179.3	4156.7	4168.0	4126.2	3674.0	3130.2	2888.9
32.5°	4887.2	4847.0	4757.7	4610.5	4465.7	4400.5	4402.1	4420.6	4074.7	3498.7	3205.8
35°	5102.0	5075.4	5008.7	4859.8	4698.1	4654.7	4642.6	4735.2	4442.3	3839.8	3489.8
37.5°	5217.8	5192.1	5120.5	5000.6	4878.4	4860.7	4883.2	5026.4	4859.8	4265.3	3876.0
40°	5196.9	5169.6	5122.9	5039.2	4958.8	4972.5	5072.2	5293.5	5316.0	4774.6	4426.2
42.5°	5024.8	4995.8	4991.8	4986.2	4948.3	5008.7	5188.9	5488.9	5735.1	5362.6	5092.3
45°	4720.7	4703.0	4723.9	4820.4	4867.9	4984.5	5243.6	5583.9	6103.6	5960.4	5722.2
47.5°	4335.3	4324.9	4372.3	4525.2	4678.8	4910.5	5279.8	5609.6	6357.0	6357.0	6134.9
50°	3904.1	3900.1	3962.9	4184.9	4425.4	4774.6	5275.8	5633.8	6468.0	6473.6	6280.6
52.5°	3302.4	3323.3	3490.6	3783.5	4110.1	4561.4	5219.4	5701.3	6530.7	6543.6	6377.9
55°	2608.9	2629.0	2881.6	3275.8	3694.2	4302.3	5051.3	5681.2	6542.8	6571.8	6433.4
57.5°	2082.8	2086.8	2244.5	2712.7	3230.8	3970.9	4857.4	5547.7	6507.4	6633.7	6518.7
60°	1629.9	1642.7	1748.1	2119.0	2693.4	3543.7	4641.0	5415.7	6527.5	6692.4	6595.9
62.5°	1214.0	1217.2	1315.3	1602.5	2139.9	2999.1	4347.4	5275.0	6555.7	6758.4	6627.3
65°	790.8	790.0	884.9	1144.0	1598.5	2411.0	3886.4	5054.5	6558.1	6743.9	6483.3
67.5°	502.8	506.0	547.0	710.4	1070.0	1819.7	3258.9	4645.1	6443.9	6393.2	5958.8
70°	407.9	408.7	421.5	464.2	651.6	1243.7	2449.6	4004.7	6082.7	5694.1	5179.2
72.5°	363.6	364.4	370.9	375.7	434.4	747.4	1607.3	3251.7	5440.7	4853.4	4296.7
75°	326.6	326.6	330.6	325.8	356.4	469.0	912.3	2444.8	4480.9	3779.4	3246.1
77.5°	286.4	285.6	285.6	283.2	308.1	342.7	456.9	1706.3	3227.6	2577.5	2105.3
80°	243.0	241.3	243.8	242.1	266.3	259.8	266.3	1053.1	1749.7	1181.8	896.2
82.5°	189.1	189.1	196.3	197.9	219.6	188.2	187.4	499.6	664.5	441.7	330.6
85°	99.0	111.0	149.6	156.1	165.7	118.3	137.6	233.3	266.3	168.9	120.7
87.5°	29.8	31.4	91.7	103.0	102.2	59.5	84.5	112.6	124.7	74.8	49.1
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°	1188.2	1188.2	1188.2	1188.2	1188.2	1188.2	1188.2	1188.2	1188.2	1188.2	1188.2
2.5°	1202.7	1174.5	1115.0	1061.9	1021.7	983.1	956.5	942.8	925.1	927.6	921.9
5°	1239.7	1181.8	1076.4	991.1	934.0	890.6	864.0	850.3	837.5	831.0	835.9
7.5°	1295.2	1205.1	1057.9	954.9	895.4	858.4	843.9	839.9	836.7	834.2	838.3
10°	1366.8	1246.1	1054.7	942.0	887.3	864.8	859.2	856.8	853.6	850.3	852.7
12.5°	1440.0	1291.2	1065.9	945.3	900.2	883.3	876.1	872.9	864.8	860.8	861.6
15°	1531.7	1345.9	1081.2	958.1	917.1	895.4	885.7	876.9	864.0	858.4	860.8
17.5°	1629.9	1411.1	1102.1	970.2	923.5	897.0	877.7	864.8	851.9	843.9	844.7
20°	1740.9	1475.4	1120.6	974.2	920.3	883.3	860.0	844.7	827.8	819.0	816.5
22.5°	1855.9	1543.0	1135.1	971.0	902.6	860.0	833.4	814.9	794.8	781.1	782.0
25°	1995.9	1634.7	1147.2	959.7	879.3	829.4	799.7	776.3	755.4	742.5	743.3
27.5°	2164.0	1738.5	1161.7	942.0	851.1	796.4	761.8	738.5	718.4	706.3	704.7
30°	2388.5	1873.6	1177.8	920.3	815.7	760.2	726.4	702.3	683.0	671.7	671.7
32.5°	2641.1	2038.5	1189.0	894.6	776.3	721.6	691.0	671.7	657.3	642.0	640.4
35°	2860.7	2166.5	1223.6	874.5	741.7	685.4	664.5	650.8	629.1	614.6	612.2
37.5°	3183.3	2391.7	1325.8	868.8	699.9	657.3	653.2	627.5	602.6	575.2	572.8
40°	3703.0	2781.9	1444.8	841.5	656.5	642.0	638.0	603.4	544.6	527.7	524.5
42.5°	4364.3	3251.7	1457.7	761.8	625.9	629.1	617.0	549.5	523.7	510.8	507.6
45°	4961.2	3633.0	1384.5	680.6	603.4	609.8	584.9	529.3	514.9	502.8	499.6
47.5°	5296.7	3750.5	1246.1	619.4	586.5	592.9	533.4	519.7	505.2	493.1	489.9
50°	5390.8	3648.3	1085.2	584.1	573.6	576.0	519.7	511.6	498.8	489.1	484.3
52.5°	5409.3	3495.5	936.4	563.1	563.9	542.2	507.6	501.2	493.1	477.9	472.2
55°	5417.4	3357.9	802.9	550.3	557.5	498.8	494.8	489.9	483.5	467.4	464.2
57.5°	5438.3	3181.7	698.3	540.6	549.5	478.7	480.3	477.1	469.0	461.8	460.2
60°	5378.7	2938.0	617.8	531.0	538.2	461.8	463.4	465.0	457.7	456.1	455.3
62.5°	5179.2	2592.0	549.5	518.1	514.9	444.9	444.9	451.3	444.9	447.3	447.3
65°	4768.1	2151.2	488.3	493.9	478.7	426.4	425.6	436.8	427.2	437.6	438.4
67.5°	4067.4	1628.3	425.6	456.1	440.9	407.1	410.3	419.1	406.3	428.0	428.0
70°	3219.5	1107.8	360.4	403.0	402.2	385.3	395.8	395.0	380.5	412.7	407.1
72.5°	2398.1	711.2	293.6	337.9	351.6	362.0	381.3	364.4	350.8	369.3	352.4
75°	1675.7	445.7	231.7	267.1	292.8	336.3	363.6	329.8	309.7	304.1	299.3
77.5°	1003.2	284.8	182.6	203.5	228.5	305.7	341.1	293.6	263.1	259.8	250.2
80°	462.6	185.8	139.2	152.0	162.5	262.3	310.5	251.0	214.0	210.8	199.5
82.5°	209.2	122.3	103.8	108.6	109.4	208.4	262.3	198.7	163.3	264.7	229.3
85°	97.3	78.8	67.6	64.4	65.2	139.2	190.7	136.8	185.8	144.8	110.2
87.5°	41.8	40.2	34.6	27.4	24.9	29.8	73.2	57.1	81.3	32.2	21.7
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)