

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: P672196

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

Issue Date: 04/16/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P672196  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 04/16/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCP-SA-2D-850-U-T2R  
Description: INVUE CLEAR CURVE POLE MOUNT LIGHT SQUARE LUMINAIRE @800mA w/ T2R distribution lens  
Light Source: (32) 5000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

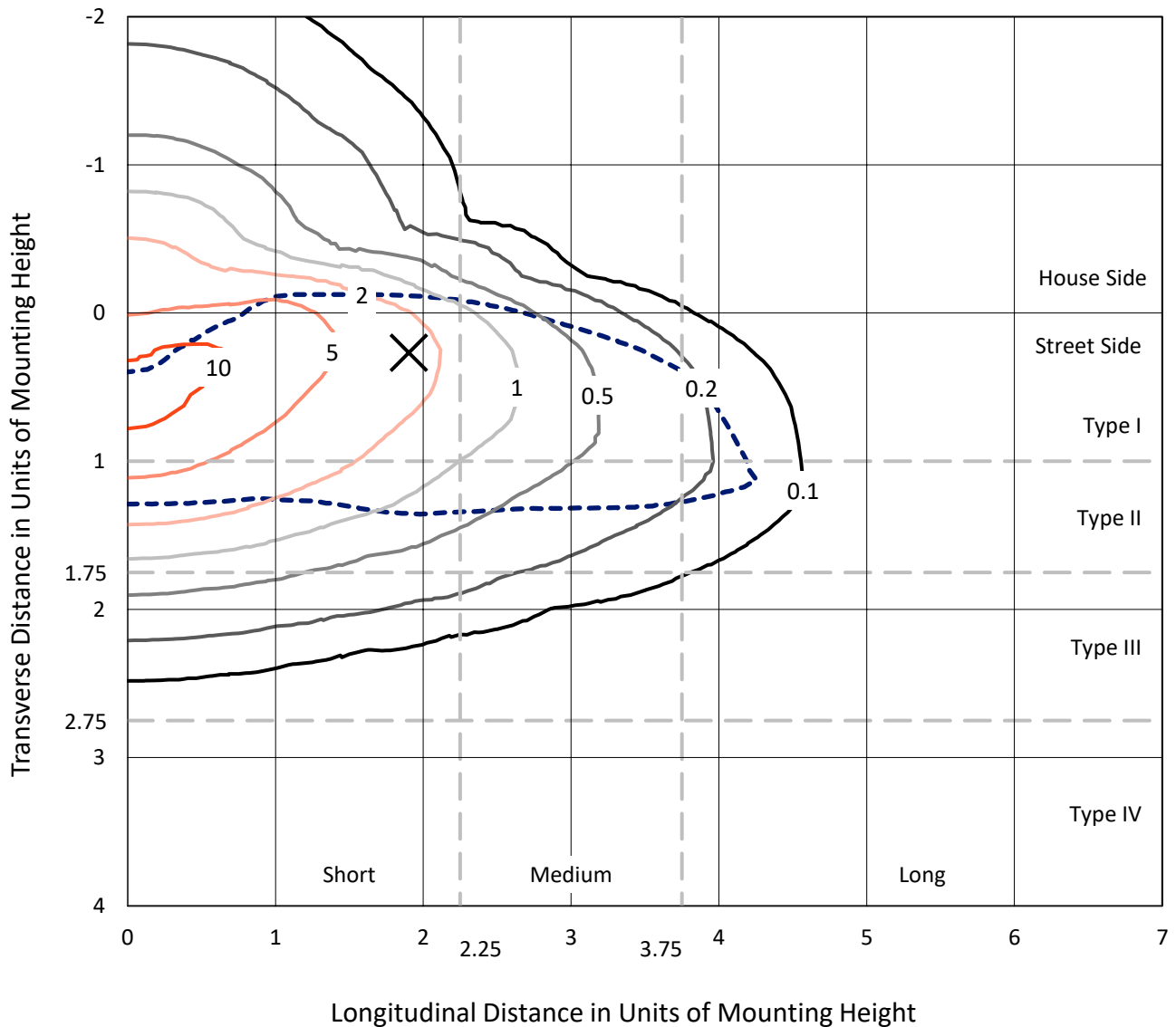
Lumens per Lamp: N/A  
Luminaire Lumens: 9885.3 lumens  
Efficiency: N/A  
Efficacy: 122.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G2

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

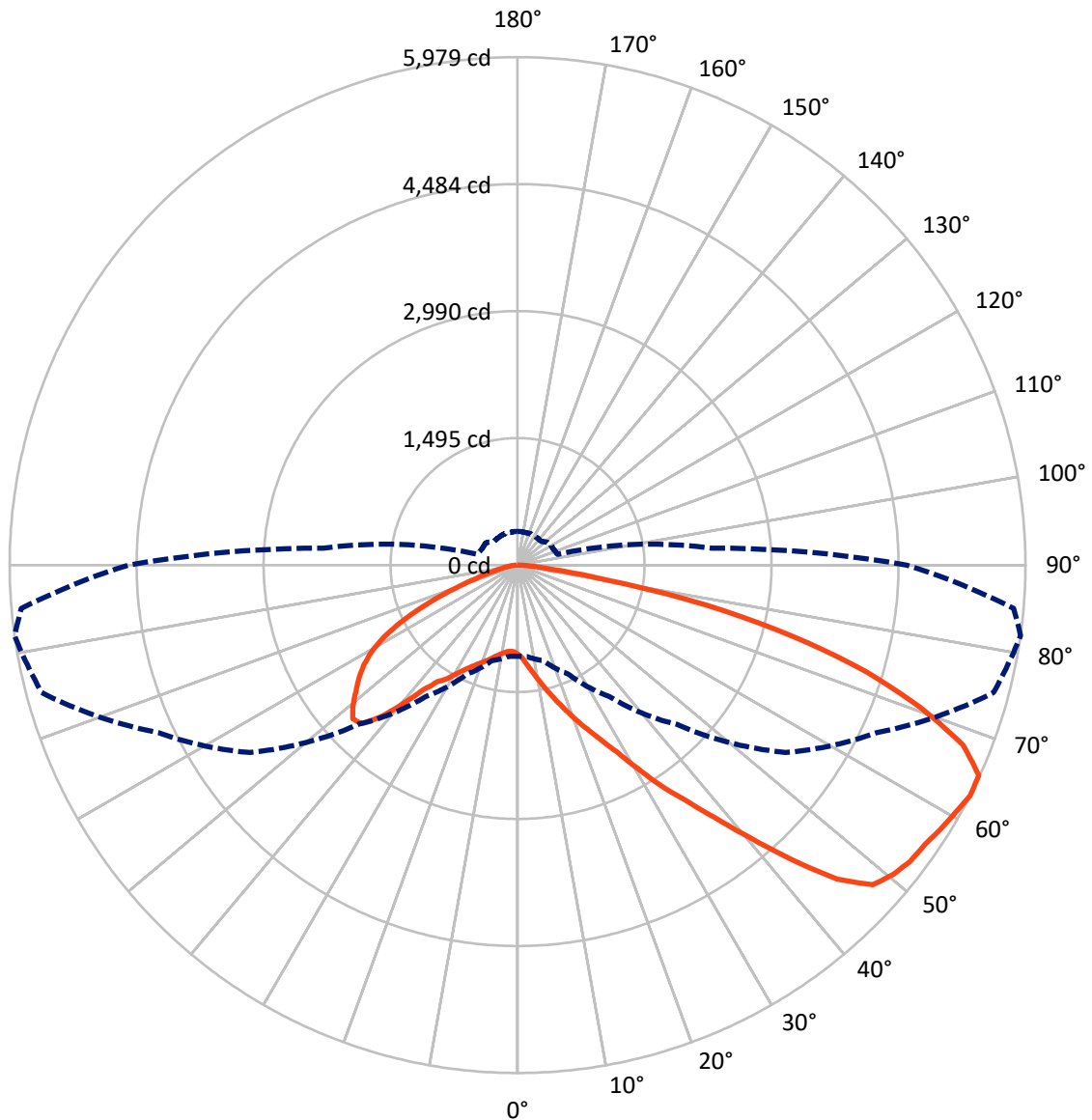
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 11.6 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	1862.4	0.0	1862.4
	% Fixture	18.8	0.0	18.8
<b>Street Side</b>	Lumens	8023.0	0.0	8023.0
	% Fixture	81.2	0.0	81.2
<b>Total</b>	Lumens	9885.3	0.0	9885.3
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	116.3	1.2
10°-20°	438.8	4.4
20°-30°	908.6	9.2
30°-40°	1542.2	15.6
40°-50°	2100.2	21.2
50°-60°	2125.8	21.5
60°-70°	1675.4	16.9
70°-80°	825.3	8.3
80°-90°	152.7	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°	9885.3	100.0
0°-180°	9885.3	100.0



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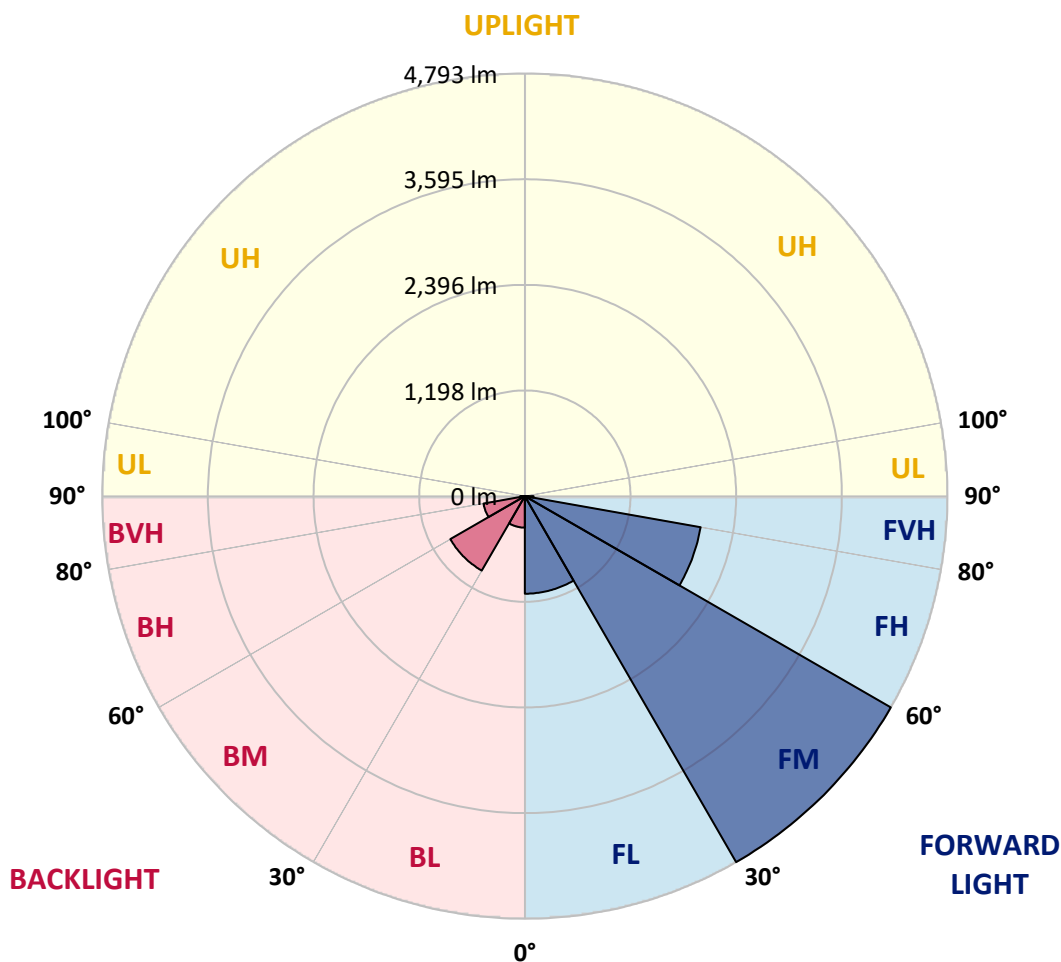
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1106.4	11.2			
FM (30°-60°)	4792.7	48.5			
FH (60°-80°)	2024.7	20.5			G2/5000
FVH (80°-90°)	99.2	1.0			G1/100
BL (0°-30°)	357.3	3.6	B1/500		
BM (30°-60°)	975.5	9.9	B1/1000		
BH (60°-80°)	476.1	4.8	B1/500		G1/500
BVH (80°-90°)	53.5	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G2**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	82°	85°
0°	1051.2	1051.2	1051.2	1051.2	1051.2	1051.2	1051.2	1051.2	1051.2	1051.2	1051.2
2.5°	1400.0	1378.6	1367.2	1354.4	1318.9	1296.1	1253.4	1203.5	1145.9	1096.8	1087.5
5°	1695.4	1674.0	1676.9	1645.5	1593.6	1545.2	1465.5	1371.5	1261.9	1177.9	1148.7
7.5°	1903.9	1880.4	1886.1	1873.3	1831.3	1777.9	1676.9	1555.9	1395.7	1271.2	1224.2
10°	2043.4	2046.2	2050.5	2045.5	2018.5	1980.8	1880.4	1746.6	1547.3	1381.5	1317.4
12.5°	2201.4	2209.2	2207.8	2209.9	2195.7	2165.8	2067.6	1941.6	1708.9	1500.3	1417.1
15°	2402.8	2395.0	2401.4	2410.7	2395.0	2362.3	2275.4	2126.0	1878.3	1632.7	1529.5
17.5°	2623.5	2607.1	2624.2	2614.9	2603.5	2582.2	2486.8	2327.4	2053.4	1775.8	1654.8
20°	2814.2	2803.5	2812.8	2814.2	2816.3	2812.1	2713.9	2544.5	2237.0	1931.7	1790.0
22.5°	3028.4	3023.5	3022.0	3022.8	3024.9	3029.9	2963.0	2782.2	2440.5	2095.4	1935.9
25°	3328.1	3323.1	3290.4	3254.1	3232.7	3248.4	3213.5	3051.9	2665.5	2279.0	2096.1
27.5°	3664.0	3656.2	3612.8	3521.0	3452.6	3464.0	3460.5	3349.4	2924.5	2489.7	2288.2
30°	4012.8	3993.6	3933.8	3804.9	3697.5	3677.5	3687.5	3650.5	3250.5	2769.4	2555.9
32.5°	4323.8	4288.2	4209.2	4079.0	3950.9	3893.2	3894.6	3911.0	3605.0	3095.3	2836.3
35°	4513.8	4490.4	4431.3	4299.6	4156.5	4118.1	4107.4	4189.3	3930.2	3397.1	3087.5
37.5°	4616.3	4593.6	4530.2	4424.2	4316.0	4300.3	4320.2	4446.9	4299.6	3773.6	3429.2
40°	4597.8	4573.6	4532.3	4458.3	4387.2	4399.3	4487.5	4683.2	4703.2	4224.2	3916.0
42.5°	4445.5	4419.9	4416.3	4411.4	4377.9	4431.3	4590.7	4856.2	5074.0	4744.4	4505.3
45°	4176.5	4160.8	4179.3	4264.7	4306.7	4409.9	4639.1	4940.2	5400.0	5273.3	5062.6
47.5°	3835.6	3826.3	3868.3	4003.5	4139.5	4344.4	4671.1	4962.9	5624.2	5624.2	5427.7
50°	3454.1	3450.5	3506.0	3702.5	3915.3	4224.2	4667.6	4984.3	5722.4	5727.4	5556.5
52.5°	2921.7	2940.2	3088.2	3347.3	3636.3	4035.6	4617.8	5044.1	5777.9	5789.3	5642.7
55°	2308.2	2326.0	2549.4	2898.2	3268.3	3806.4	4469.0	5026.3	5788.6	5814.2	5691.8
57.5°	1842.7	1846.2	1985.7	2400.0	2858.3	3513.1	4297.5	4908.1	5757.2	5869.0	5767.2
60°	1442.0	1453.4	1546.6	1874.7	2382.9	3135.2	4106.0	4791.4	5775.0	5920.9	5835.5
62.5°	1074.0	1076.9	1163.7	1417.8	1893.2	2653.4	3846.2	4666.9	5800.0	5979.3	5863.3
65°	699.6	698.9	782.9	1012.1	1414.2	2133.1	3438.4	4471.8	5802.1	5966.5	5735.9
67.5°	444.8	447.7	484.0	628.5	946.6	1610.0	2883.2	4109.6	5701.0	5656.2	5271.8
70°	360.9	361.6	373.0	410.7	576.5	1100.3	2167.2	3543.0	5381.4	5037.7	4582.2
72.5°	321.7	322.4	328.1	332.4	384.3	661.2	1422.1	2876.8	4813.5	4293.9	3801.4
75°	289.0	289.0	292.5	288.3	315.3	414.9	807.1	2163.0	3964.4	3343.7	2871.9
77.5°	253.4	252.7	252.7	250.5	272.6	303.2	404.3	1509.6	2855.5	2280.4	1862.6
80°	214.9	213.5	215.7	214.2	235.6	229.9	235.6	931.7	1548.0	1045.5	792.9
82.5°	167.3	167.3	173.7	175.1	194.3	166.5	165.8	442.0	587.9	390.7	292.5
85°	87.5	98.2	132.4	138.1	146.6	104.6	121.7	206.4	235.6	149.5	106.8
87.5°	26.3	27.8	81.1	91.1	90.4	52.7	74.7	99.6	110.3	66.2	43.4
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°	1051.2	1051.2	1051.2	1051.2	1051.2	1051.2	1051.2	1051.2	1051.2	1051.2	1051.2
2.5°	1064.0	1039.1	986.5	939.5	903.9	869.7	846.3	834.2	818.5	820.6	815.7
5°	1096.8	1045.5	952.3	876.9	826.3	787.9	764.4	752.3	740.9	735.2	739.5
7.5°	1145.9	1066.2	935.9	844.8	792.2	759.4	746.6	743.1	740.2	738.1	741.6
10°	1209.2	1102.5	933.1	833.4	785.0	765.1	760.1	758.0	755.2	752.3	754.4
12.5°	1274.0	1142.3	943.1	836.3	796.4	781.5	775.1	772.2	765.1	761.6	762.3
15°	1355.1	1190.7	956.6	847.7	811.4	792.2	783.6	775.8	764.4	759.4	761.6
17.5°	1442.0	1248.4	975.1	858.4	817.1	793.6	776.5	765.1	753.7	746.6	747.3
20°	1540.2	1305.3	991.5	861.9	814.2	781.5	760.8	747.3	732.4	724.5	722.4
22.5°	1642.0	1365.1	1004.3	859.1	798.6	760.8	737.4	721.0	703.2	691.1	691.8
25°	1765.8	1446.3	1014.9	849.1	777.9	733.8	707.5	686.8	668.3	656.9	657.6
27.5°	1914.6	1538.1	1027.7	833.4	753.0	704.6	674.0	653.4	635.6	624.9	623.5
30°	2113.1	1657.6	1042.0	814.2	721.7	672.6	642.7	621.3	604.3	594.3	594.3
32.5°	2336.6	1803.5	1051.9	791.5	686.8	638.4	611.4	594.3	581.5	568.0	566.5
35°	2530.9	1916.7	1082.6	773.7	656.2	606.4	587.9	575.8	556.6	543.8	541.6
37.5°	2816.3	2116.0	1172.9	768.7	619.2	581.5	577.9	555.2	533.1	508.9	506.8
40°	3276.1	2461.2	1278.3	744.5	580.8	568.0	564.4	533.8	481.8	466.9	464.1
42.5°	3861.2	2876.8	1289.7	674.0	553.7	556.6	545.9	486.1	463.3	452.0	449.1
45°	4389.3	3214.2	1224.9	602.1	533.8	539.5	517.4	468.3	455.5	444.8	442.0
47.5°	4686.1	3318.1	1102.5	548.0	518.9	524.6	471.9	459.8	447.0	436.3	433.4
50°	4769.4	3227.7	960.1	516.7	507.5	509.6	459.8	452.7	441.3	432.7	428.5
52.5°	4785.7	3092.5	828.5	498.2	498.9	479.7	449.1	443.4	436.3	422.8	417.8
55°	4792.8	2970.8	710.3	486.8	493.2	441.3	437.7	433.4	427.8	413.5	410.7
57.5°	4811.3	2814.9	617.8	478.3	486.1	423.5	424.9	422.1	414.9	408.5	407.1
60°	4758.7	2599.3	546.6	469.7	476.2	408.5	410.0	411.4	405.0	403.6	402.8
62.5°	4582.2	2293.2	486.1	458.4	455.5	393.6	393.6	399.3	393.6	395.7	395.7
65°	4218.5	1903.2	432.0	437.0	423.5	377.2	376.5	386.5	377.9	387.2	387.9
67.5°	3598.5	1440.6	376.5	403.6	390.0	360.1	363.0	370.8	359.4	378.6	378.6
70°	2848.4	980.1	318.9	356.6	355.9	340.9	350.2	349.5	336.7	365.1	360.1
72.5°	2121.7	629.2	259.8	298.9	311.0	320.3	337.4	322.4	310.3	326.7	311.7
75°	1482.5	394.3	205.0	236.3	259.1	297.5	321.7	291.8	274.0	269.0	264.8
77.5°	887.5	252.0	161.6	180.1	202.1	270.5	301.8	259.8	232.7	229.9	221.4
80°	409.2	164.4	123.1	134.5	143.8	232.0	274.7	222.1	189.3	186.5	176.5
82.5°	185.1	108.2	91.8	96.1	96.8	184.3	232.0	175.8	144.5	234.2	202.8
85°	86.1	69.8	59.8	56.9	57.7	123.1	168.7	121.0	164.4	128.1	97.5
87.5°	37.0	35.6	30.6	24.2	22.1	26.3	64.8	50.5	71.9	28.5	19.2
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)