

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: P671114

Luminaire Tested: **CCP-SA-1B-750-U-T4W**

Issue Date: 04/16/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P671114  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 04/16/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCP-SA-1B-750-U-T4W  
Description: INVUE CLEAR CURVE POLE MOUNT LIGHT SQUARE LUMINAIRE @450mA w/ T4W distribution lens  
Light Source: (16) 5000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

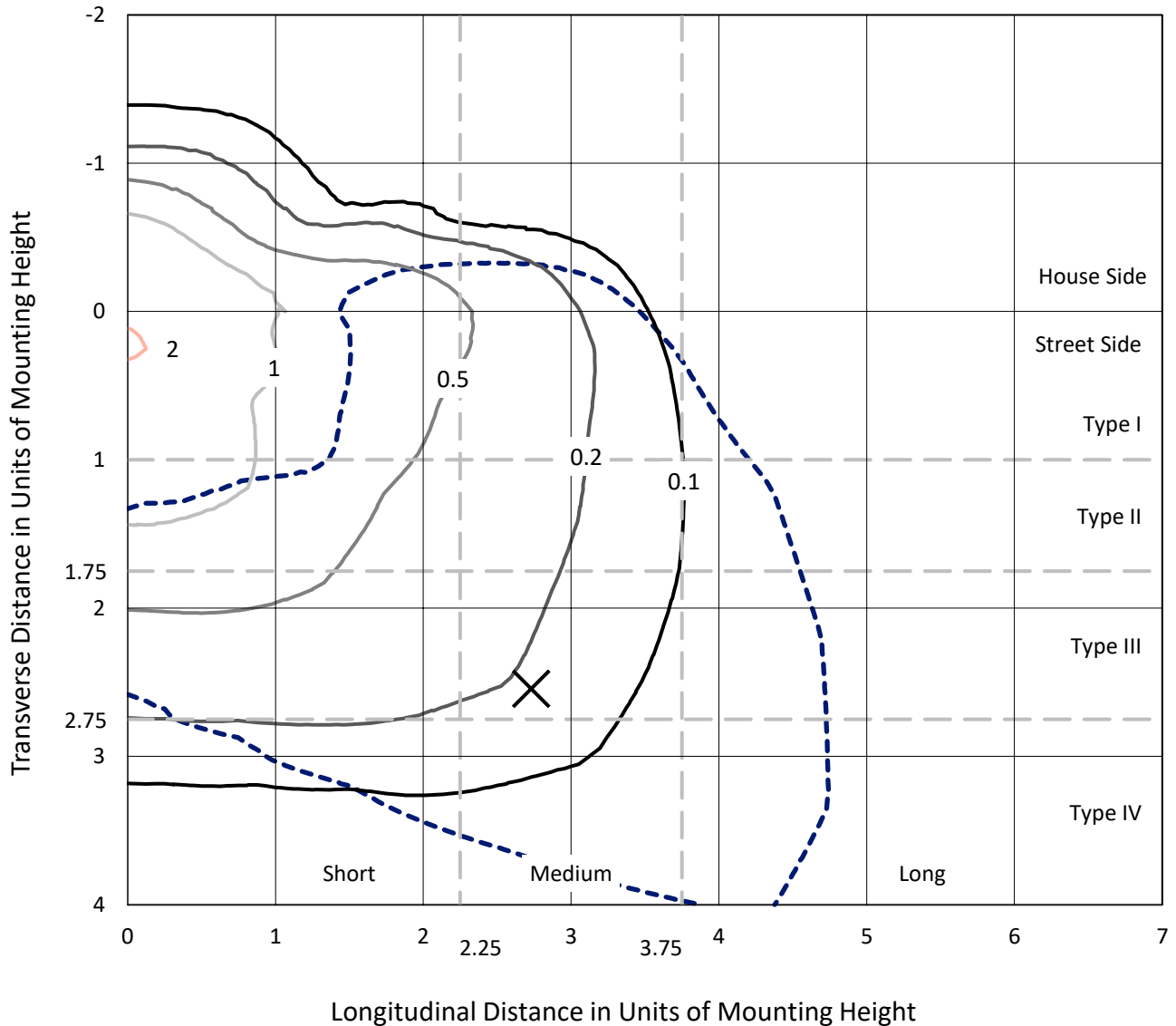
Lumens per Lamp: N/A  
Luminaire Lumens: 3563.8 lumens  
Efficiency: N/A  
Efficacy: 148.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B1 - U0 - G1

Input Watts (W): 24  
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

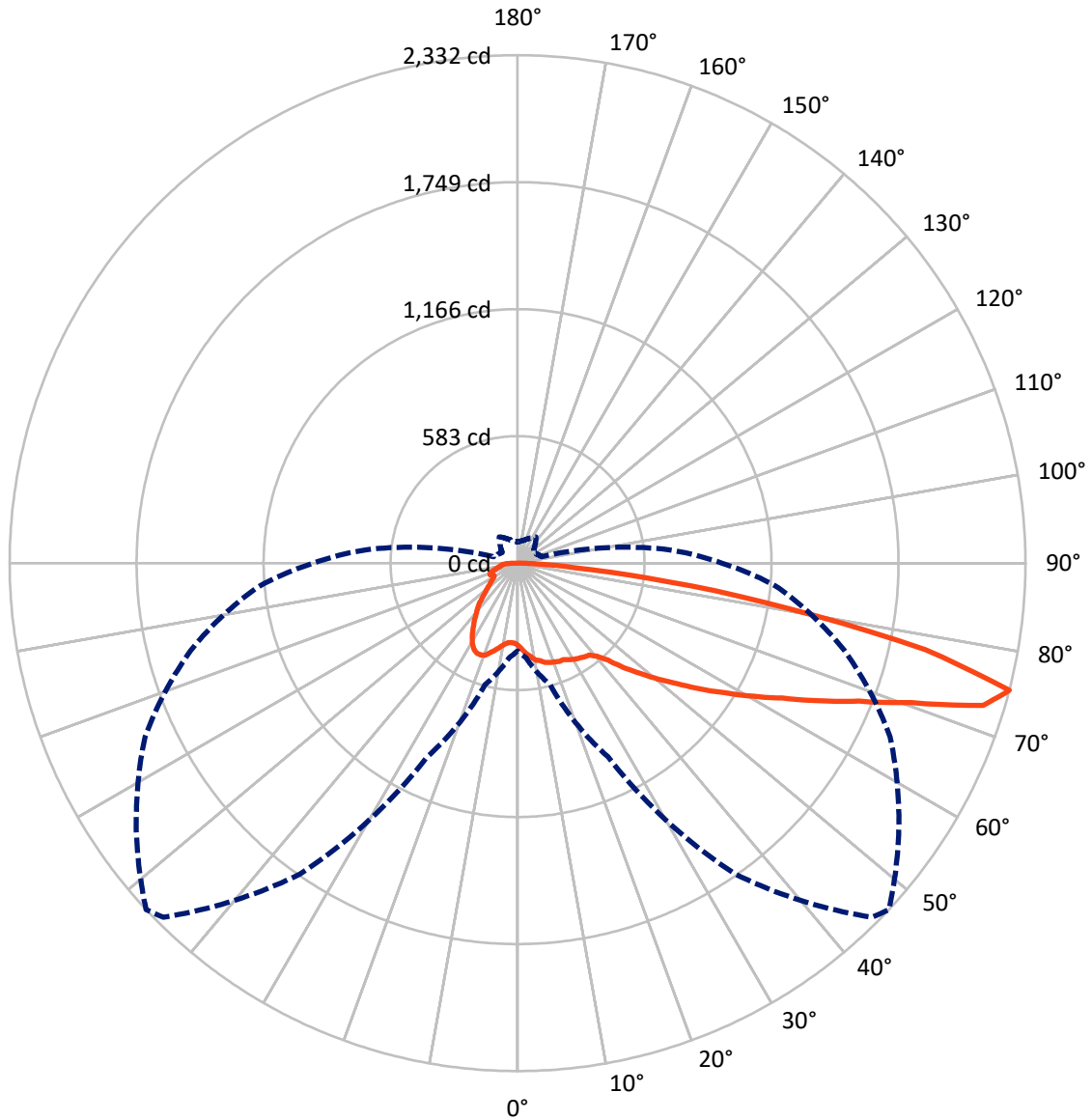
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 2.1 fc  
 Type IV - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral    - - - Horizontal Cone Through 75-Deg Vertical

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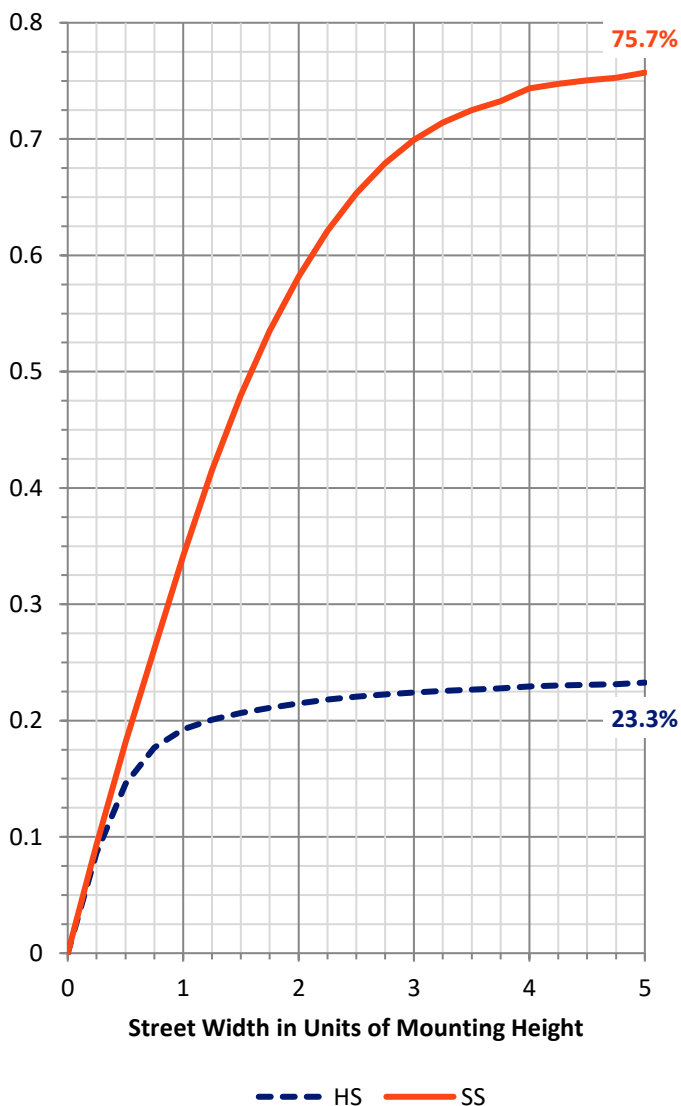
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	852.2	0.0	852.2
	% Fixture	23.9	0.0	23.9
<b>Street Side</b>	Lumens	2711.6	0.0	2711.6
	% Fixture	76.1	0.0	76.1
<b>Total</b>	Lumens	3563.8	0.0	3563.8
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	38.3	1.1
10°-20°	127.0	3.6
20°-30°	217.6	6.1
30°-40°	304.4	8.5
40°-50°	424.5	11.9
50°-60°	634.5	17.8
60°-70°	914.8	25.7
70°-80°	778.7	21.8
80°-90°	124.0	3.5
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°	3563.8	100.0
0°-180°	3563.8	100.0



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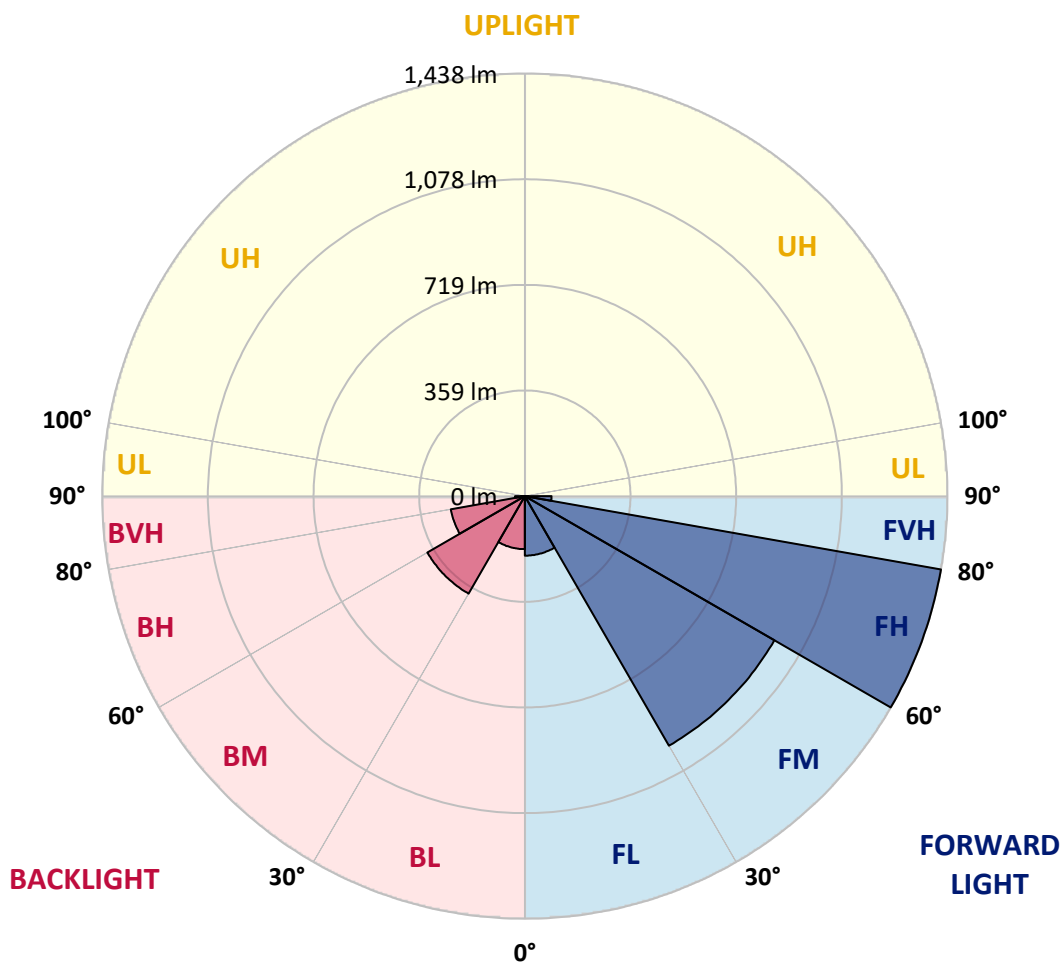
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	202.5	5.7			
FM (30°-60°)	980.4	27.5			
FH (60°-80°)	1437.8	40.3			G1/1800
FVH (80°-90°)	90.9	2.6			G1/100
BL (0°-30°)	180.4	5.1	B1/500		
BM (30°-60°)	383.0	10.7	B1/1000		
BH (60°-80°)	255.7	7.2	B1/500		G1/500
BVH (80°-90°)	33.1	0.9			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G1**

Type IV Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	378.4	378.4	378.4	378.4	378.4	378.4	378.4	378.4	378.4	378.4	378.4
2.5°	405.7	407.0	407.0	404.4	401.8	396.6	396.6	391.4	388.8	382.3	379.7
5°	443.4	439.5	435.6	434.3	427.8	418.7	417.4	412.2	397.9	391.4	382.3
7.5°	470.7	469.4	468.1	462.9	451.2	436.9	433.0	425.2	410.9	397.9	387.5
10°	492.8	498.0	492.8	481.1	469.4	453.8	452.5	438.2	425.2	409.6	396.6
12.5°	517.5	518.8	509.7	495.4	477.2	464.2	459.0	453.8	439.5	426.5	407.0
15°	534.5	531.9	525.3	505.8	485.0	472.0	473.3	466.8	451.2	442.1	421.3
17.5°	534.5	534.5	524.0	509.7	491.5	479.8	479.8	475.9	465.5	452.5	438.2
20°	524.0	524.0	517.5	509.7	488.9	486.3	483.7	481.1	481.1	469.4	448.6
22.5°	511.0	508.4	511.0	498.0	483.7	486.3	490.2	488.9	485.0	474.6	460.3
25°	498.0	499.3	501.9	492.8	479.8	491.5	490.2	496.7	494.1	486.3	474.6
27.5°	496.7	499.3	500.6	491.5	486.3	496.7	501.9	508.4	509.7	501.9	487.6
30°	516.2	514.9	513.6	501.9	498.0	507.1	512.3	521.4	529.2	512.3	500.6
32.5°	567.0	559.2	551.4	520.1	508.4	514.9	520.1	533.2	534.5	525.3	508.4
35°	647.6	642.4	616.4	561.8	529.2	522.7	527.9	537.1	539.7	533.2	520.1
37.5°	739.9	737.3	700.9	634.6	572.2	541.0	535.8	548.8	559.2	544.9	526.6
40°	830.9	820.5	794.5	729.5	626.8	568.3	561.8	568.3	572.2	561.8	550.1
42.5°	912.9	901.2	894.7	829.6	698.3	613.8	608.6	593.0	604.7	591.7	576.1
45°	981.8	979.2	976.6	920.7	780.2	687.9	684.0	643.7	656.7	646.3	624.2
47.5°	1031.2	1042.9	1039.0	1007.8	873.8	767.2	755.5	703.5	723.0	712.6	690.5
50°	1089.7	1096.2	1092.3	1071.5	961.0	858.2	836.1	782.8	804.9	803.6	791.9
52.5°	1141.7	1161.2	1139.1	1137.8	1085.8	957.1	919.4	868.6	905.1	919.4	918.1
55°	1202.8	1218.4	1211.9	1209.3	1197.6	1053.3	1019.5	958.4	1019.5	1040.3	1058.5
57.5°	1254.9	1253.6	1278.3	1308.2	1322.5	1163.8	1123.5	1052.0	1144.3	1167.7	1218.4
60°	1278.3	1300.4	1342.0	1417.4	1457.7	1282.2	1240.6	1183.3	1270.5	1288.7	1382.3
62.5°	1293.9	1313.4	1394.0	1521.4	1544.8	1403.1	1364.1	1306.9	1408.3	1421.3	1560.4
65°	1251.0	1269.2	1429.1	1560.4	1643.7	1533.1	1524.0	1464.2	1546.1	1553.9	1747.7
67.5°	1201.5	1221.0	1399.2	1609.9	1775.0	1706.1	1691.8	1620.3	1682.7	1673.6	1890.7
70°	1114.4	1140.4	1322.5	1652.8	1920.6	1947.9	1919.3	1817.9	1824.4	1738.6	1897.2
72.5°	849.1	866.0	1035.1	1482.4	1988.3	2283.4	2234.0	2031.2	1957.1	1751.6	1674.9
75°	403.1	434.3	577.4	980.5	1742.5	2299.0	2331.6	2136.5	1886.8	1553.9	1187.2
77.5°	117.0	117.0	175.5	416.1	1092.3	1853.0	1914.1	1814.0	1556.5	1150.8	624.2
80°	63.7	67.6	92.3	146.9	479.8	1169.0	1257.5	1202.8	916.8	455.1	161.2
82.5°	36.4	37.7	61.1	88.4	218.5	635.9	687.9	624.2	348.5	137.8	75.4
85°	20.8	22.1	35.1	58.5	130.0	234.1	254.9	221.1	140.4	92.3	37.7
87.5°	10.4	10.4	16.9	27.3	66.3	66.3	65.0	79.3	84.5	55.9	16.9
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°	378.4	378.4	378.4	378.4	378.4	378.4	378.4	378.4	378.4	378.4	378.4
2.5°	378.4	377.1	377.1	371.9	370.6	366.7	366.7	364.1	362.8	366.7	366.7
5°	379.7	373.2	371.9	366.7	368.0	365.4	370.6	368.0	366.7	366.7	365.4
7.5°	382.3	375.8	370.6	366.7	365.4	369.3	375.8	375.8	383.6	379.7	379.7
10°	388.8	384.9	378.4	375.8	375.8	379.7	387.5	392.7	399.2	399.2	395.3
12.5°	404.4	397.9	390.1	386.2	391.4	395.3	403.1	408.3	416.1	418.7	416.1
15°	416.1	409.6	407.0	404.4	408.3	413.5	420.0	425.2	434.3	436.9	435.6
17.5°	431.7	423.9	422.6	423.9	426.5	430.4	434.3	438.2	444.7	444.7	444.7
20°	439.5	436.9	435.6	439.5	444.7	449.9	447.3	444.7	443.4	446.0	444.7
22.5°	453.8	451.2	452.5	456.4	456.4	453.8	449.9	440.8	438.2	440.8	438.2
25°	466.8	464.2	464.2	461.6	460.3	451.2	443.4	435.6	426.5	430.4	429.1
27.5°	479.8	478.5	478.5	468.1	455.1	439.5	429.1	420.0	414.8	421.3	417.4
30°	495.4	496.7	490.2	465.5	434.3	417.4	405.7	404.4	403.1	407.0	405.7
32.5°	509.7	511.0	500.6	461.6	418.7	386.2	374.5	375.8	382.3	388.8	395.3
35°	517.5	524.0	511.0	448.6	387.5	351.1	338.1	349.8	361.5	370.6	377.1
37.5°	531.9	548.8	526.6	434.3	360.2	319.9	310.8	314.7	329.0	343.3	349.8
40°	552.7	572.2	530.5	407.0	323.8	288.7	283.5	284.8	290.0	299.1	305.6
42.5°	589.1	609.9	534.5	371.9	287.4	269.2	254.9	251.0	247.1	247.1	245.8
45°	642.4	661.9	529.2	327.7	251.0	238.0	227.6	218.5	208.1	191.2	193.8
47.5°	720.4	736.0	533.2	288.7	217.2	206.8	199.0	188.6	172.9	154.7	153.4
50°	838.7	815.3	527.9	248.4	192.5	183.4	176.8	162.5	144.3	131.3	130.0
52.5°	976.6	929.8	522.7	214.6	171.6	163.8	158.6	143.0	126.1	119.6	118.3
55°	1143.0	1075.4	530.5	184.7	156.0	149.5	144.3	130.0	117.0	111.8	110.5
57.5°	1339.4	1232.7	573.5	161.2	139.1	136.5	135.2	123.5	111.8	107.9	106.6
60°	1524.0	1383.6	602.1	144.3	123.5	126.1	128.7	123.5	110.5	107.9	107.9
62.5°	1678.8	1508.4	556.6	130.0	115.7	123.5	135.2	131.3	126.1	128.7	126.1
65°	1815.3	1551.3	416.1	122.2	111.8	130.0	149.5	148.2	136.5	139.1	137.8
67.5°	1838.7	1499.3	271.8	115.7	109.2	143.0	167.7	152.1	128.7	128.7	124.8
70°	1741.2	1360.2	182.1	109.2	107.9	143.0	171.6	143.0	120.9	120.9	115.7
72.5°	1429.1	1087.1	140.4	102.7	98.8	127.4	162.5	135.2	113.1	110.5	101.4
75°	938.9	700.9	114.4	97.5	85.8	111.8	146.9	124.8	107.9	100.1	96.2
77.5°	460.3	314.7	96.2	85.8	74.1	97.5	133.9	118.3	101.4	93.6	91.0
80°	126.1	113.1	80.6	75.4	62.4	84.5	126.1	113.1	94.9	87.1	83.2
82.5°	71.5	70.2	65.0	61.1	52.0	84.5	127.4	113.1	89.7	88.4	75.4
85°	39.0	41.6	46.8	45.5	40.3	75.4	120.9	98.8	72.8	61.1	61.1
87.5°	15.6	19.5	23.4	26.0	27.3	55.9	91.0	75.4	55.9	46.8	46.8
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)