

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: P674946

Luminaire Tested: **CCW-SA-1B-727-U-T3**

Issue Date: 04/25/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P674946  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 04/25/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCW-SA-1B-727-U-T3  
Description: INVUE CLEAR CURVE Wall Pack MOUNT LIGHT SQUARE LUMINAIRE @450mA w/  
T3 distribution lens  
Light Source: (16) 2700K CCT, 70 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2918.2 lumens  
Efficiency: N/A  
Efficacy: 121.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B1 - U0 - G1

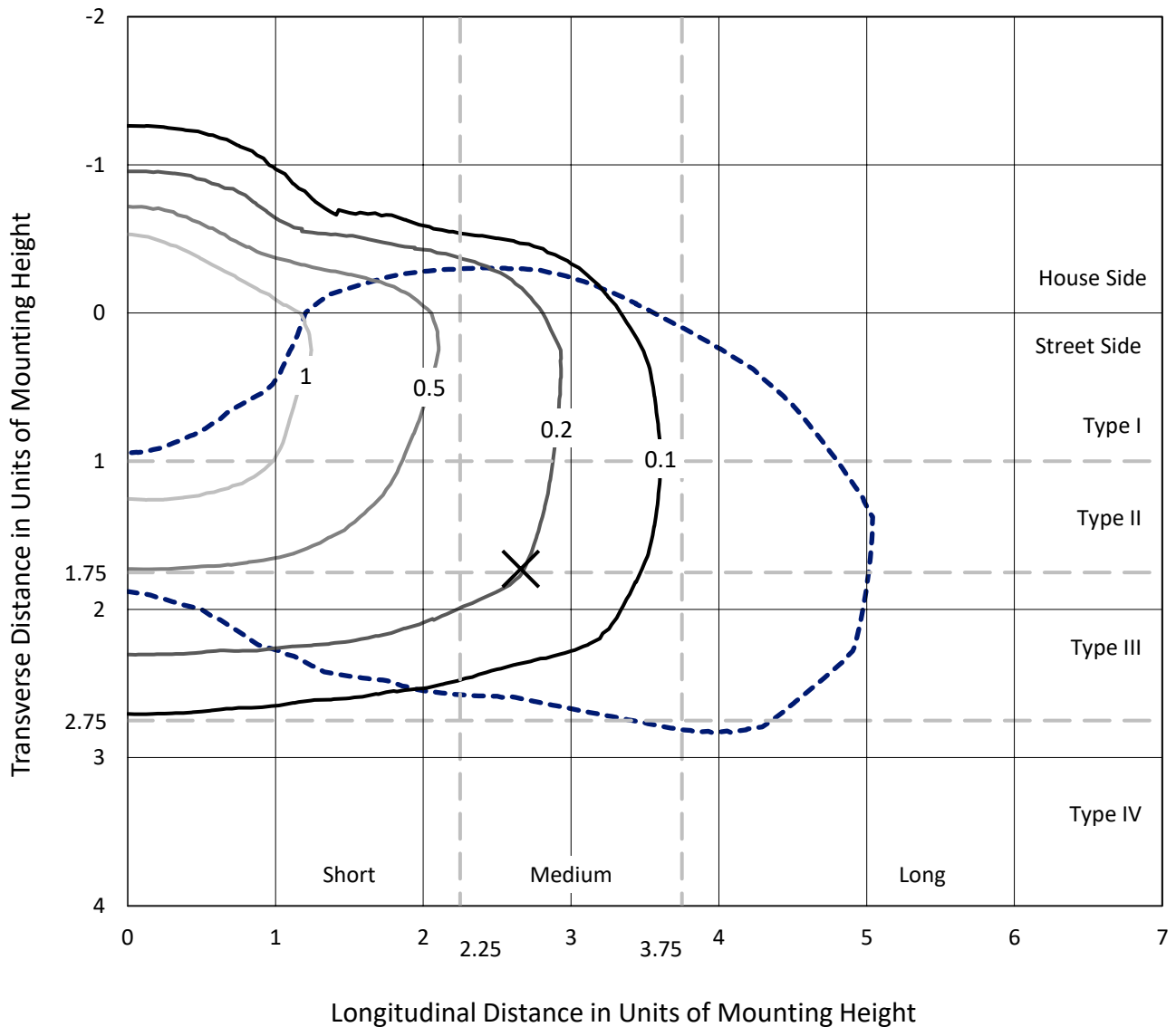
Input Watts (W): 24  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

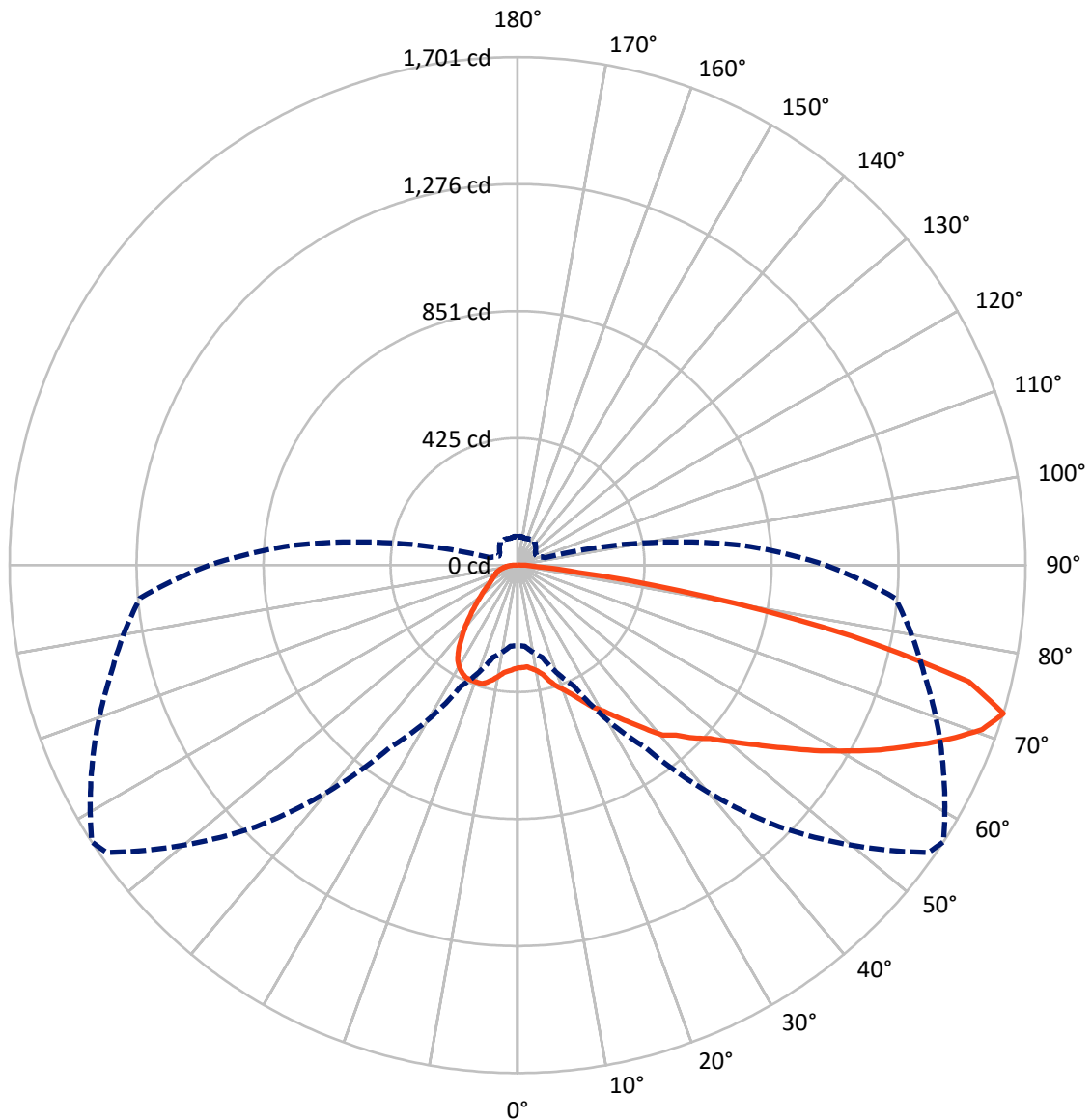
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 1.8 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral    - - - Horizontal Cone Through 72.5-Deg Vertical

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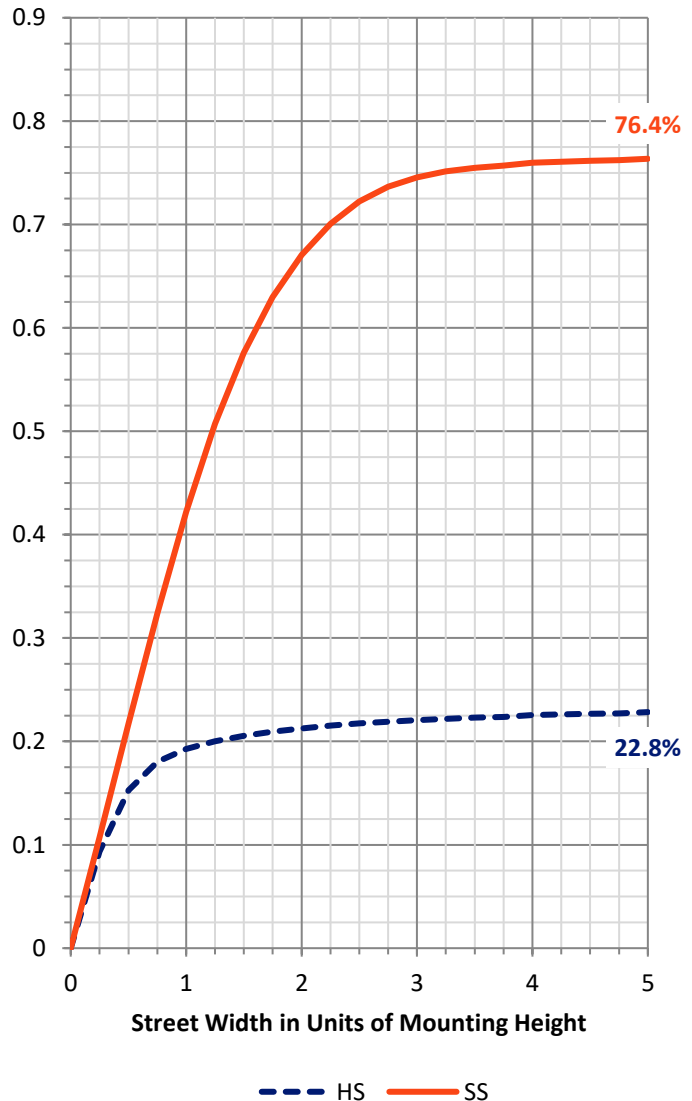
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	681.5	0.0	681.5
	% Fixture	23.4	0.0	23.4
<b>Street Side</b>	Lumens	2236.7	0.0	2236.7
	% Fixture	76.6	0.0	76.6
<b>Total</b>	Lumens	2918.2	0.0	2918.2
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	34.2	1.2
10°-20°	115.2	3.9
20°-30°	210.6	7.2
30°-40°	309.0	10.6
40°-50°	425.5	14.6
50°-60°	583.5	20.0
60°-70°	703.4	24.1
70°-80°	468.5	16.1
80°-90°	68.2	2.3
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°	2918.2	100.0
0°-180°	2918.2	100.0



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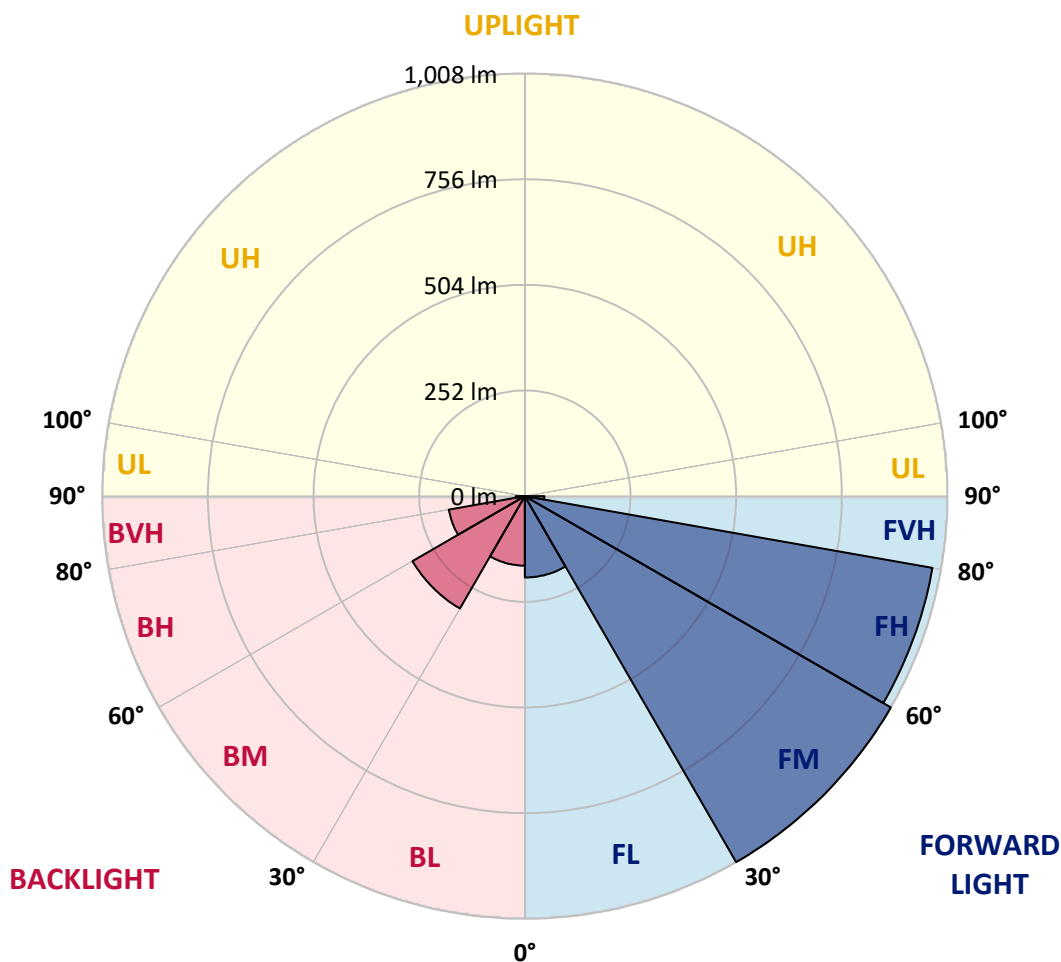
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	194.1	6.7			
FM (30°-60°)	1008.5	34.6			
FH (60°-80°)	987.6	33.8			G1/1800
FVH (80°-90°)	46.5	1.6			G1/100
BL (0°-30°)	165.9	5.7	B1/500		
BM (30°-60°)	309.6	10.6	B1/1000		
BH (60°-80°)	184.3	6.3	B1/500		G1/500
BVH (80°-90°)	21.8	0.7			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 III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	344.4	344.4	344.4	344.4	344.4	344.4	344.4	344.4	344.4	344.4	344.4
2.5°	338.1	339.1	341.3	340.2	340.2	337.0	342.3	343.4	341.3	342.3	344.4
5°	338.1	340.2	343.4	341.3	342.3	341.3	339.1	342.3	342.3	343.4	346.6
7.5°	356.1	355.1	355.1	351.9	350.8	349.8	350.8	350.8	348.7	349.8	349.8
10°	376.3	376.3	374.2	374.2	372.1	366.8	361.5	360.4	357.2	358.3	358.3
12.5°	397.6	399.7	401.9	395.5	393.3	384.8	381.7	375.3	375.3	373.1	372.1
15°	424.2	421.0	423.1	421.0	415.7	407.2	401.9	402.9	395.5	393.3	390.2
17.5°	447.6	448.6	445.4	443.3	433.7	427.4	428.4	427.4	417.8	414.6	409.3
20°	475.2	474.1	474.1	467.8	459.3	450.8	447.6	446.5	448.6	442.3	429.5
22.5°	503.9	499.7	499.7	494.3	482.6	477.3	475.2	471.0	473.1	467.8	448.6
25°	527.3	527.3	534.7	524.1	517.7	507.1	502.8	503.9	505.0	494.3	472.0
27.5°	558.1	552.8	560.3	554.9	551.8	540.1	534.7	537.9	535.8	524.1	493.3
30°	597.5	598.5	594.3	586.8	582.6	574.1	570.9	567.7	570.9	556.0	516.7
32.5°	646.4	649.6	638.9	630.4	623.0	614.5	608.1	604.9	608.1	585.8	534.7
35°	702.7	705.9	697.4	687.8	679.3	658.1	652.7	647.4	635.7	599.6	551.8
37.5°	754.8	750.6	748.4	748.4	732.5	701.6	698.5	695.3	672.9	627.2	575.1
40°	789.9	795.2	793.1	790.9	788.8	760.1	753.7	748.4	711.2	668.7	608.1
42.5°	829.2	826.0	834.5	837.7	830.3	821.8	796.3	778.2	745.2	711.2	657.0
45°	876.0	873.9	877.1	888.8	878.1	881.3	838.8	826.0	784.6	764.4	718.7
47.5°	917.5	922.8	938.7	941.9	933.4	948.3	888.8	868.6	842.0	826.0	782.4
50°	935.5	941.9	978.1	1000.4	1001.4	1024.8	938.7	930.2	894.1	900.4	862.2
52.5°	920.6	940.8	984.4	1042.9	1079.1	1102.4	1004.6	1000.4	967.4	987.6	949.4
55°	934.5	953.6	982.3	1064.2	1155.6	1160.9	1096.1	1080.1	1047.2	1074.8	1039.7
57.5°	940.8	930.2	984.4	1087.6	1211.9	1225.8	1183.2	1171.5	1146.0	1172.6	1152.4
60°	890.9	903.6	954.7	1081.2	1215.1	1294.9	1281.0	1264.0	1240.6	1265.1	1253.4
62.5°	834.5	843.0	898.3	1042.9	1233.2	1344.8	1375.7	1362.9	1329.9	1351.2	1371.4
65°	763.3	764.4	826.0	974.9	1198.1	1373.5	1458.6	1457.5	1434.1	1428.8	1460.7
67.5°	676.1	684.6	733.5	902.6	1150.3	1405.4	1540.4	1556.4	1509.6	1468.1	1479.8
70°	518.8	527.3	574.1	739.9	1052.5	1395.9	1641.4	1649.9	1558.5	1453.3	1423.5
72.5°	270.0	272.2	320.0	446.5	746.3	1239.6	1678.6	1701.0	1571.3	1409.7	1269.3
75°	89.3	89.3	109.5	170.1	351.9	793.1	1520.2	1560.6	1508.5	1301.2	1038.7
77.5°	53.2	54.2	64.8	85.0	140.3	316.8	1071.6	1142.8	1234.3	1106.7	759.1
80°	38.3	39.3	48.9	58.5	84.0	102.1	537.9	636.8	758.0	712.3	405.0
82.5°	28.7	28.7	38.3	43.6	57.4	60.6	149.9	205.2	327.4	255.1	111.6
85°	29.8	29.8	29.8	30.8	39.3	35.1	62.7	67.0	95.7	84.0	30.8
87.5°	10.6	11.7	29.8	20.2	20.2	14.9	24.5	26.6	34.0	35.1	11.7
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°	344.4	344.4	344.4	344.4	344.4	344.4	344.4	344.4	344.4	344.4	344.4
2.5°	345.5	345.5	346.6	346.6	348.7	350.8	354.0	351.9	351.9	353.0	351.9
5°	344.4	345.5	348.7	354.0	356.1	357.2	363.6	363.6	363.6	365.7	365.7
7.5°	348.7	350.8	356.1	361.5	362.5	365.7	374.2	376.3	381.7	383.8	384.8
10°	359.3	362.5	366.8	373.1	377.4	381.7	388.0	395.5	394.4	400.8	401.9
12.5°	375.3	374.2	381.7	388.0	392.3	398.7	400.8	400.8	400.8	400.8	402.9
15°	388.0	390.2	396.5	400.8	406.1	405.0	400.8	396.5	397.6	396.5	396.5
17.5°	407.2	407.2	412.5	413.5	415.7	405.0	398.7	398.7	401.9	401.9	399.7
20°	426.3	425.2	427.4	426.3	412.5	399.7	398.7	399.7	400.8	399.7	398.7
22.5°	444.4	442.3	439.1	434.8	410.4	398.7	396.5	391.2	385.9	385.9	382.7
25°	460.3	458.2	449.7	436.9	409.3	392.3	381.7	368.9	362.5	359.3	363.6
27.5°	475.2	471.0	459.3	436.9	399.7	375.3	355.1	339.1	333.8	329.6	333.8
30°	495.4	488.0	472.0	433.7	384.8	348.7	321.1	301.9	296.6	290.2	292.4
32.5°	513.5	496.5	482.6	424.2	365.7	318.9	287.0	267.9	258.3	253.0	257.3
35°	532.6	515.6	486.9	409.3	335.9	282.8	250.9	232.8	225.4	217.9	217.9
37.5°	551.8	542.2	493.3	381.7	299.8	248.8	220.1	206.2	193.5	179.7	179.7
40°	592.1	579.4	500.7	349.8	263.6	215.8	195.6	177.5	164.8	145.6	144.6
42.5°	634.7	607.0	500.7	311.5	231.8	192.4	173.3	154.2	130.8	119.1	120.1
45°	688.9	657.0	486.9	277.5	199.9	173.3	152.0	127.6	116.9	109.5	109.5
47.5°	756.9	707.0	469.9	240.3	174.3	156.3	129.7	114.8	107.4	101.0	99.9
50°	837.7	752.7	448.6	208.4	153.1	140.3	118.0	106.3	99.9	95.7	95.7
52.5°	922.8	819.7	433.7	179.7	136.1	119.1	109.5	102.1	96.7	93.6	92.5
55°	1008.9	886.6	423.1	148.8	120.1	109.5	107.4	101.0	98.9	95.7	93.6
57.5°	1105.6	941.9	421.0	127.6	107.4	105.2	109.5	104.2	101.0	97.8	94.6
60°	1209.8	1016.3	401.9	110.6	101.0	103.1	106.3	101.0	98.9	95.7	93.6
62.5°	1312.9	1071.6	349.8	97.8	94.6	96.7	101.0	96.7	93.6	94.6	95.7
65°	1355.5	1075.9	271.1	88.2	87.2	88.2	94.6	93.6	90.4	96.7	96.7
67.5°	1312.9	1037.6	191.4	79.7	79.7	85.0	95.7	97.8	94.6	103.1	102.1
70°	1216.2	943.0	129.7	74.4	76.5	90.4	98.9	96.7	92.5	103.1	101.0
72.5°	1032.3	754.8	94.6	69.1	72.3	86.1	97.8	95.7	92.5	96.7	92.5
75°	775.0	536.9	74.4	62.7	63.8	77.6	101.0	95.7	87.2	85.0	81.9
77.5°	517.7	331.7	57.4	55.3	55.3	68.0	96.7	89.3	78.7	75.5	74.4
80°	246.6	132.9	45.7	46.8	47.8	58.5	88.2	79.7	71.2	67.0	67.0
82.5°	78.7	50.0	38.3	38.3	38.3	47.8	73.4	67.0	61.7	58.5	53.2
85°	27.6	27.6	33.0	34.0	30.8	35.1	60.6	57.4	51.0	42.5	41.5
87.5°	10.6	15.9	22.3	26.6	19.1	24.5	43.6	40.4	37.2	27.6	26.6
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)