

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: P676455

Luminaire Tested: **CCW-SA-1E-827-U-T3-HSS**

Issue Date: 04/25/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P676455  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 04/25/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCW-SA-1E-827-U-T3-HSS  
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @1050mA w/  
T3 distribution lens and House Side Shield  
Light Source: (16) 2700K CCT, 80 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

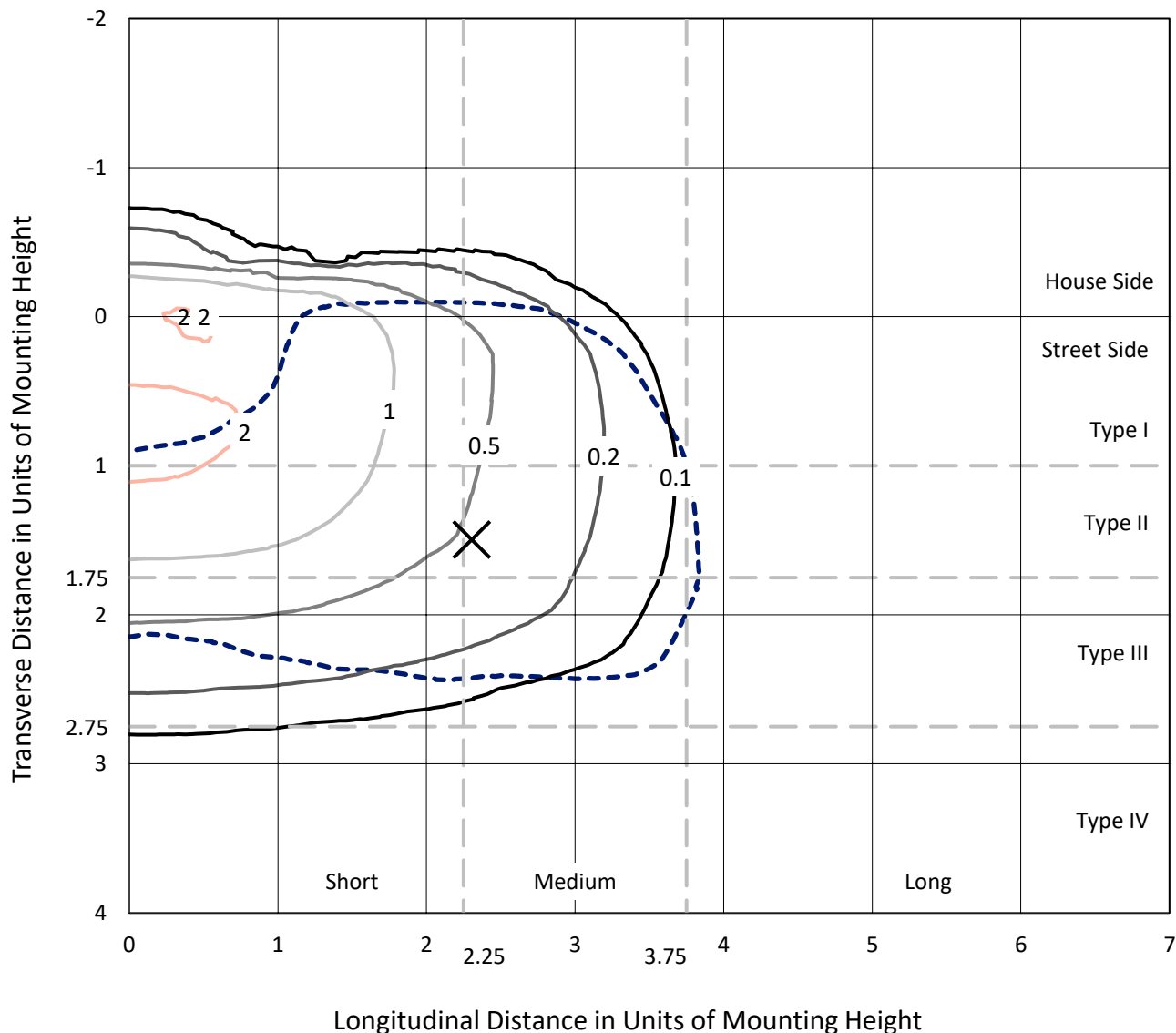
Lumens per Lamp: N/A  
Luminaire Lumens: 3620.7 lumens  
Efficiency: N/A  
Efficacy: 64.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B1 - U0 - G1

Input Watts (W): 56.1  
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

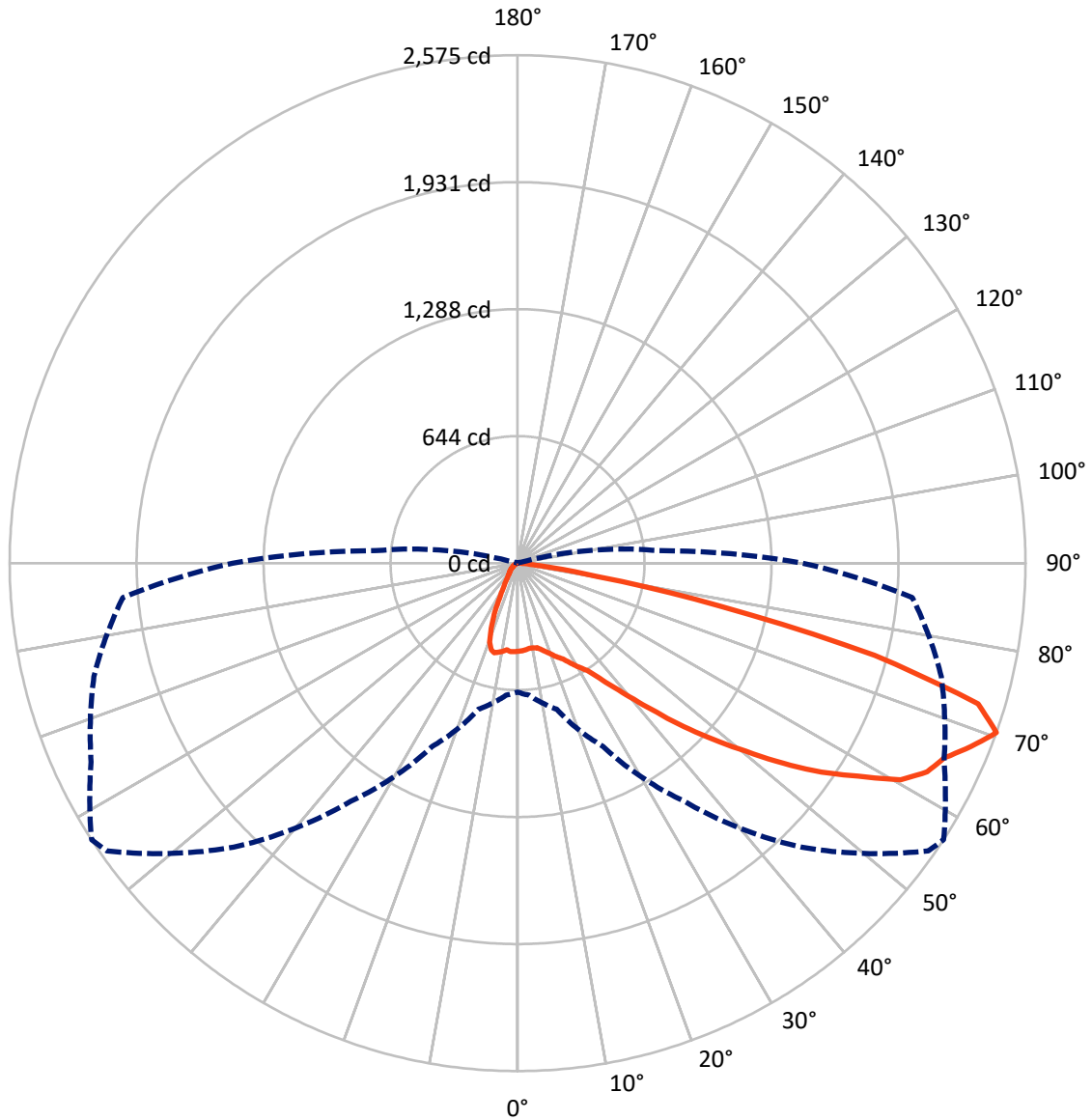
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 2.5 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral    - - - Horizontal Cone Through 70-Deg Vertical

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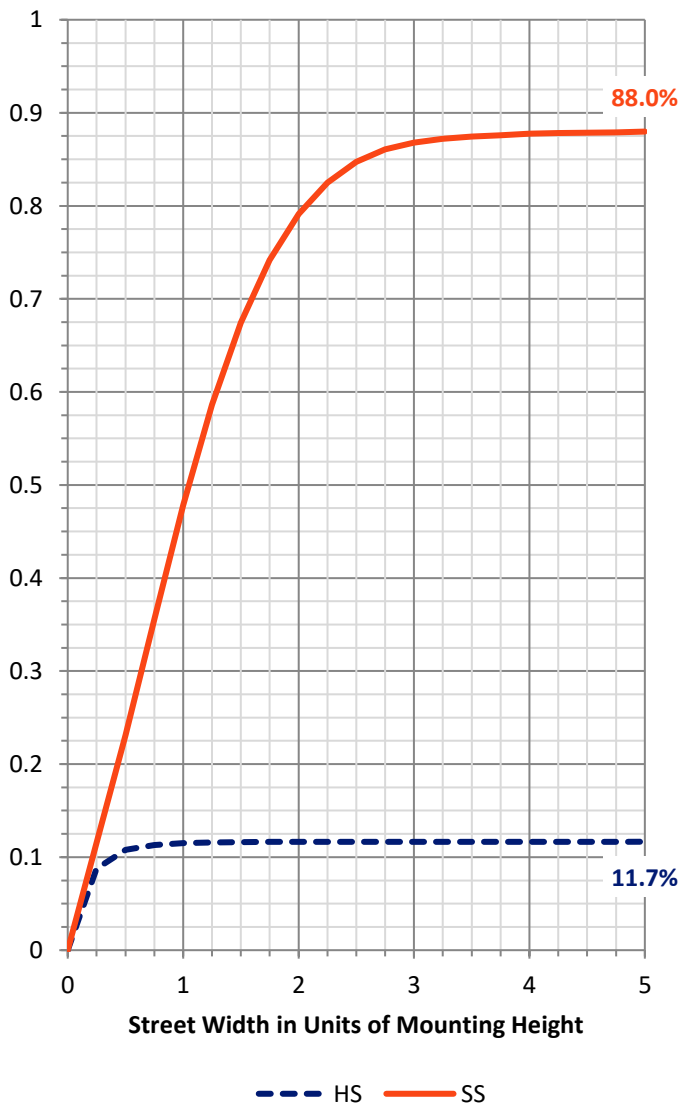
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	426.8	0.0	426.8
	% Fixture	11.8	0.0	11.8
<b>Street Side</b>	Lumens	3193.9	0.0	3193.9
	% Fixture	88.2	0.0	88.2
<b>Total</b>	Lumens	3620.7	0.0	3620.7
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	41.8	1.2
10°-20°	116.7	3.2
20°-30°	196.6	5.4
30°-40°	336.5	9.3
40°-50°	565.0	15.6
50°-60°	867.3	24.0
60°-70°	1001.3	27.7
70°-80°	473.0	13.1
80°-90°	22.4	0.6
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°	3620.7	100.0
0°-180°	3620.7	100.0

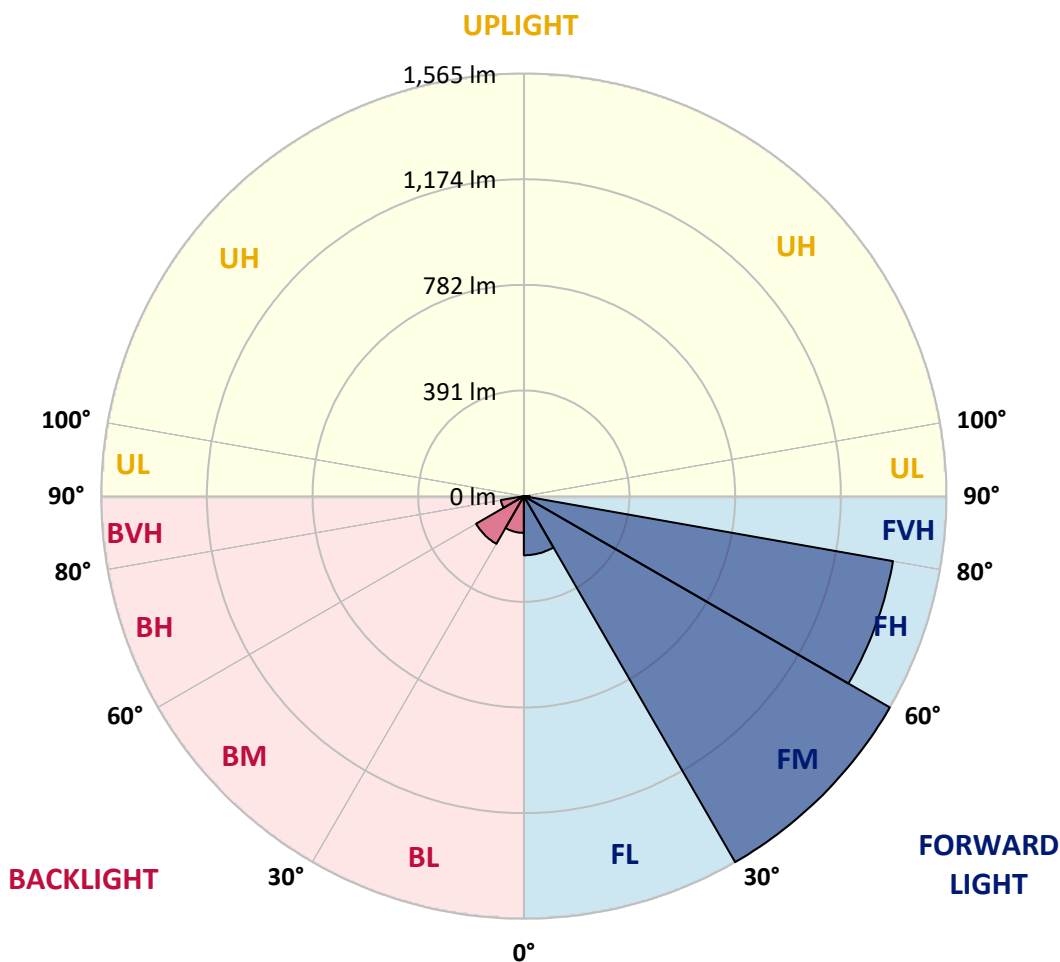


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	219.0	6.0			
FM (30°-60°)	1564.8	43.2			
FH (60°-80°)	1388.0	38.3			G1/1800
FVH (80°-90°)	22.0	0.6			G1/100
BL (0°-30°)	136.1	3.8	B1/500		
BM (30°-60°)	204.0	5.6	B0/220		
BH (60°-80°)	86.3	2.4	B0/110		G0/110
BVH (80°-90°)	0.4	0.0			G0/10
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°	446.7	446.7	446.7	446.7	446.7	446.7	446.7	446.7	446.7	446.7	446.7
2.5°	440.3	437.5	440.3	444.0	440.3	443.0	442.1	444.9	441.2	441.2	444.0
5°	411.6	416.2	418.1	422.7	427.3	435.6	441.2	441.2	446.7	449.5	453.2
7.5°	401.4	394.0	401.4	405.1	409.8	423.6	432.0	435.6	443.0	453.2	458.8
10°	386.6	392.2	392.2	404.2	410.7	419.0	433.8	436.6	453.2	463.4	468.9
12.5°	385.7	385.7	390.3	398.7	411.6	427.3	445.8	440.3	457.8	476.3	485.6
15°	388.5	395.0	395.0	406.1	416.2	438.4	454.1	455.1	480.0	498.5	506.9
17.5°	400.5	397.7	401.4	407.9	423.6	444.9	470.8	473.6	502.2	527.2	539.2
20°	425.5	430.1	424.6	420.9	427.3	455.1	488.4	493.9	526.3	550.3	562.4
22.5°	518.9	515.2	493.0	467.1	456.0	468.9	505.0	518.0	555.9	584.6	594.7
25°	624.3	617.9	592.0	553.1	502.2	496.7	538.3	538.3	592.9	624.3	621.6
27.5°	724.2	722.4	691.9	651.2	579.0	539.2	565.1	575.3	634.5	660.4	648.4
30°	826.0	827.8	800.1	751.1	675.2	607.7	603.1	611.4	666.0	706.7	681.7
32.5°	944.4	927.7	908.3	840.8	771.4	695.6	652.1	648.4	701.1	738.1	704.8
35°	1049.8	1039.6	1018.4	957.3	877.8	787.1	726.1	716.8	745.5	794.5	758.5
37.5°	1142.3	1132.1	1104.4	1063.7	1001.7	900.9	814.9	801.0	813.0	864.8	821.4
40°	1221.9	1224.6	1217.2	1177.5	1120.1	1028.5	929.6	907.4	897.2	943.4	894.4
42.5°	1279.2	1306.0	1307.9	1258.9	1212.6	1162.7	1051.7	1034.1	1010.0	1048.9	1014.7
45°	1399.4	1384.6	1393.9	1376.3	1325.4	1318.0	1192.3	1182.1	1148.8	1161.7	1125.7
47.5°	1493.8	1491.0	1508.6	1479.9	1466.0	1467.0	1352.3	1334.7	1287.5	1311.6	1270.9
50°	1548.4	1533.6	1597.4	1619.6	1616.8	1627.9	1514.1	1499.3	1454.0	1489.2	1402.2
52.5°	1561.3	1588.1	1648.3	1728.7	1762.9	1786.1	1690.8	1685.3	1636.2	1658.4	1538.2
55°	1593.7	1619.6	1654.7	1787.0	1913.7	1919.3	1864.7	1870.2	1826.8	1821.2	1667.7
57.5°	1592.8	1587.2	1684.3	1837.9	2013.6	2093.2	2063.6	2036.7	1989.6	1935.0	1750.9
60°	1534.5	1531.7	1632.5	1844.3	2068.2	2250.4	2262.4	2231.0	2112.6	2032.1	1849.0
62.5°	1418.9	1430.0	1531.7	1788.8	2120.0	2306.8	2351.2	2329.9	2182.9	2096.9	1964.6
65°	1286.6	1263.5	1381.9	1650.1	2003.4	2290.2	2386.4	2379.0	2266.1	2167.1	2071.0
67.5°	1032.2	1042.4	1133.1	1419.8	1804.6	2229.1	2468.7	2479.8	2332.7	2229.1	2103.3
70°	653.9	672.4	766.8	1025.8	1473.4	2036.7	2542.7	2575.1	2385.4	2223.6	2009.0
72.5°	190.5	197.9	326.5	511.5	938.8	1633.5	2424.3	2440.9	2282.8	2018.2	1553.9
75°	62.9	66.6	96.2	166.5	368.1	844.5	1790.7	1869.3	1816.6	1463.3	888.9
77.5°	41.6	43.5	52.7	79.5	139.7	264.5	960.1	1044.3	1023.9	685.4	286.7
80°	30.5	31.4	38.8	53.6	85.1	95.3	354.3	409.8	395.9	157.2	57.3
82.5°	19.4	19.4	28.7	37.9	53.6	47.2	102.7	113.8	111.0	60.1	22.2
85°	12.9	13.9	21.3	29.6	29.6	22.2	29.6	34.2	37.0	32.4	10.2
87.5°	3.7	4.6	12.0	20.3	12.0	11.1	10.2	11.1	12.9	17.6	5.5
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°	446.7	446.7	446.7	446.7	446.7	446.7	446.7	446.7	446.7	446.7	446.7
2.5°	446.7	450.4	449.5	451.4	448.6	445.8	448.6	448.6	448.6	445.8	444.0
5°	450.4	448.6	450.4	446.7	450.4	446.7	444.9	439.3	438.4	438.4	442.1
7.5°	456.0	457.8	449.5	449.5	441.2	443.0	438.4	439.3	437.5	434.7	432.9
10°	464.3	471.7	463.4	460.6	451.4	444.0	432.9	427.3	427.3	423.6	427.3
12.5°	487.4	484.7	480.0	470.8	459.7	444.9	418.1	391.3	369.1	352.4	360.7
15°	505.9	505.0	498.5	481.0	466.2	420.9	353.3	284.0	247.0	230.3	227.5
17.5°	534.6	531.8	520.7	497.6	448.6	348.7	242.3	184.1	148.0	139.7	136.9
20°	561.4	560.5	536.5	506.9	404.2	254.4	158.2	121.2	111.0	111.9	110.1
22.5°	590.1	585.5	556.8	495.8	321.9	169.3	112.8	108.2	104.5	103.6	105.4
25°	622.5	605.8	577.2	470.8	236.8	116.5	106.4	102.7	99.0	98.0	98.0
27.5°	635.4	624.3	586.4	410.7	149.8	101.7	99.9	95.3	90.6	87.9	86.9
30°	665.0	646.5	595.7	322.8	106.4	93.4	90.6	85.1	78.6	74.0	74.0
32.5°	694.6	672.4	596.6	225.7	88.8	84.2	79.5	72.1	63.8	59.2	60.1
35°	731.6	701.1	586.4	146.1	79.5	74.0	64.7	56.4	49.0	45.3	45.3
37.5°	794.5	765.9	544.8	96.2	72.1	62.9	53.6	44.4	37.9	35.1	35.1
40°	874.1	837.1	487.4	75.8	63.8	53.6	42.5	34.2	30.5	27.7	27.7
42.5°	969.3	923.1	402.4	67.5	56.4	44.4	33.3	26.8	23.1	23.1	22.2
45°	1064.6	988.8	315.4	62.0	49.9	37.0	25.9	21.3	19.4	18.5	18.5
47.5°	1200.6	1068.3	225.7	56.4	43.5	28.7	21.3	17.6	15.7	14.8	15.7
50°	1331.0	1143.2	160.0	50.9	36.1	23.1	17.6	15.7	13.9	12.9	12.9
52.5°	1445.7	1195.0	111.9	44.4	30.5	19.4	15.7	13.9	12.9	12.0	12.0
55°	1508.6	1177.5	76.8	37.9	25.0	16.6	13.9	12.0	11.1	10.2	10.2
57.5°	1573.3	1128.4	58.3	31.4	20.3	15.7	12.9	11.1	10.2	9.2	9.2
60°	1627.9	1092.4	45.3	25.0	16.6	12.9	11.1	9.2	8.3	7.4	6.5
62.5°	1630.7	1020.2	33.3	18.5	12.9	11.1	9.2	7.4	4.6	3.7	2.8
65°	1641.8	944.4	24.0	13.9	9.2	8.3	6.5	3.7	1.8	0.0	0.0
67.5°	1602.9	854.7	19.4	10.2	6.5	4.6	2.8	0.9	0.0	0.0	0.0
70°	1444.8	721.5	14.8	7.4	4.6	2.8	0.9	0.0	0.0	0.0	0.0
72.5°	1034.1	468.9	10.2	5.5	1.8	0.9	0.0	0.0	0.0	0.0	0.0
75°	551.3	199.8	7.4	3.7	0.9	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	173.0	50.9	4.6	1.8	0.9	0.0	0.0	0.0	0.0	0.0	0.0
80°	37.9	13.9	2.8	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	12.9	5.5	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	4.6	1.8	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.8	0.9	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)