

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: P676468

Luminaire Tested: **CCW-SA-2A-830-U-T3-HSS**

Issue Date: 04/25/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P676468  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 04/25/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCW-SA-2A-830-U-T3-HSS  
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @350mA w/  
T3 distribution lens and House Side Shield  
Light Source: (32) 3000K CCT, 80 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

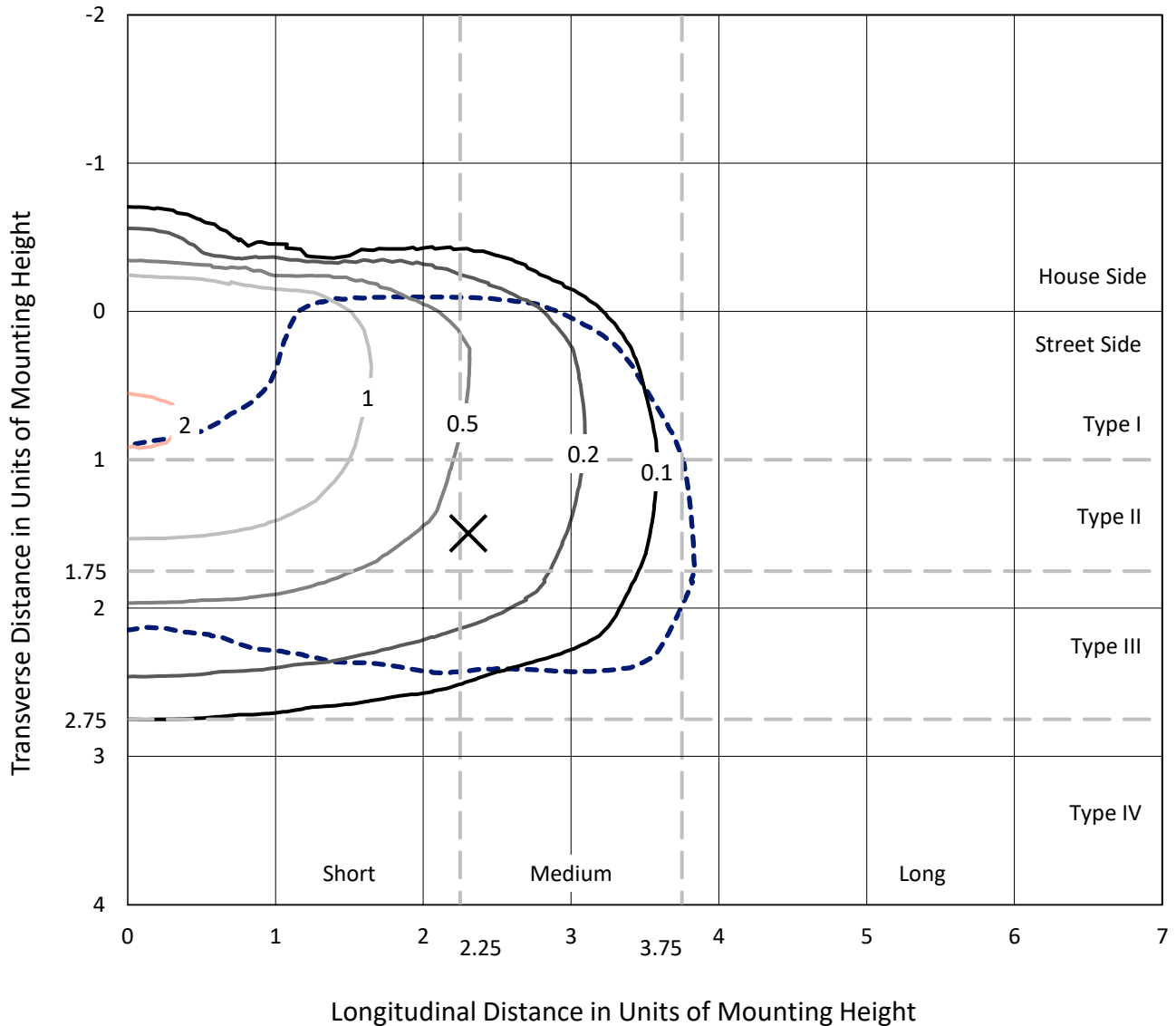
Lumens per Lamp: N/A  
Luminaire Lumens: 3132.2 lumens  
Efficiency: N/A  
Efficacy: 86.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B1 - U0 - G1

Input Watts (W): 36.2  
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

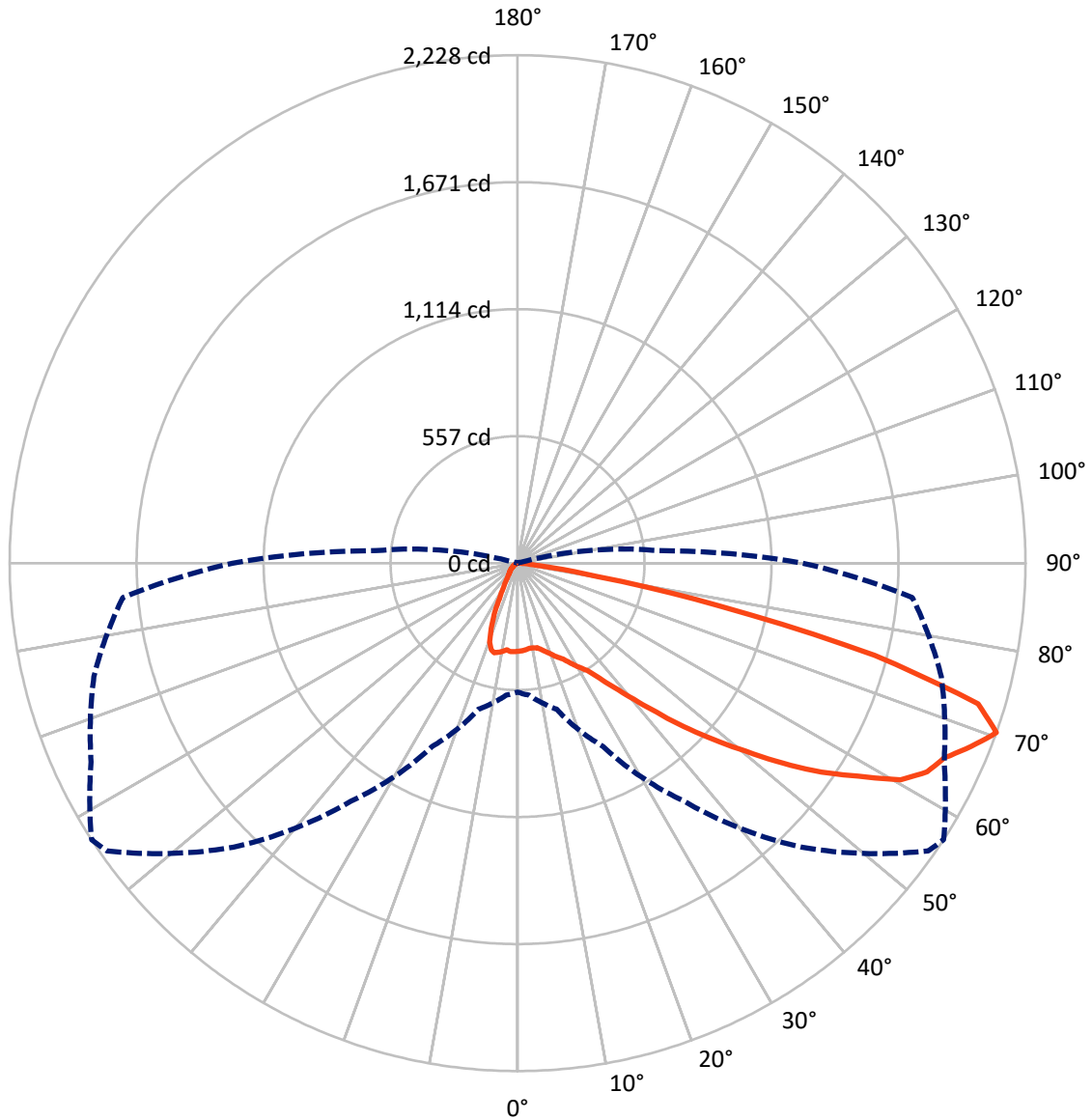
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 2.2 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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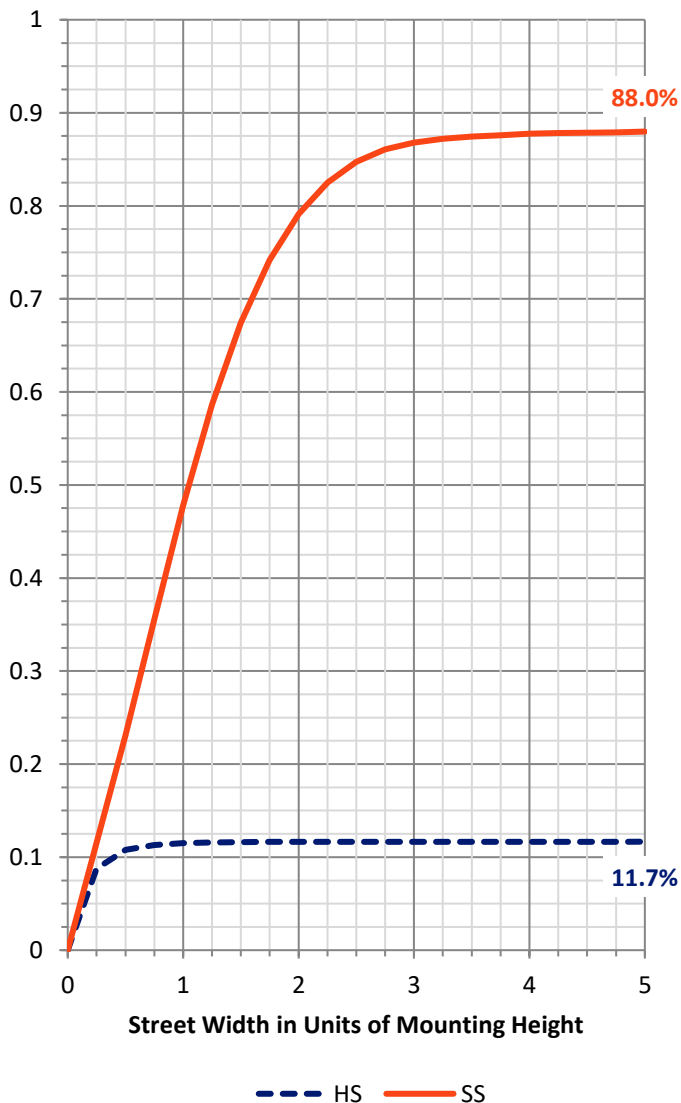
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	369.2	0.0	369.2
	% Fixture	11.8	0.0	11.8
<b>Street Side</b>	Lumens	2763.0	0.0	2763.0
	% Fixture	88.2	0.0	88.2
<b>Total</b>	Lumens	3132.2	0.0	3132.2
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	36.1	1.2
10°-20°	101.0	3.2
20°-30°	170.1	5.4
30°-40°	291.1	9.3
40°-50°	488.8	15.6
50°-60°	750.3	24.0
60°-70°	866.2	27.7
70°-80°	409.2	13.1
80°-90°	19.4	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°	3132.2	100.0
0°-180°	3132.2	100.0



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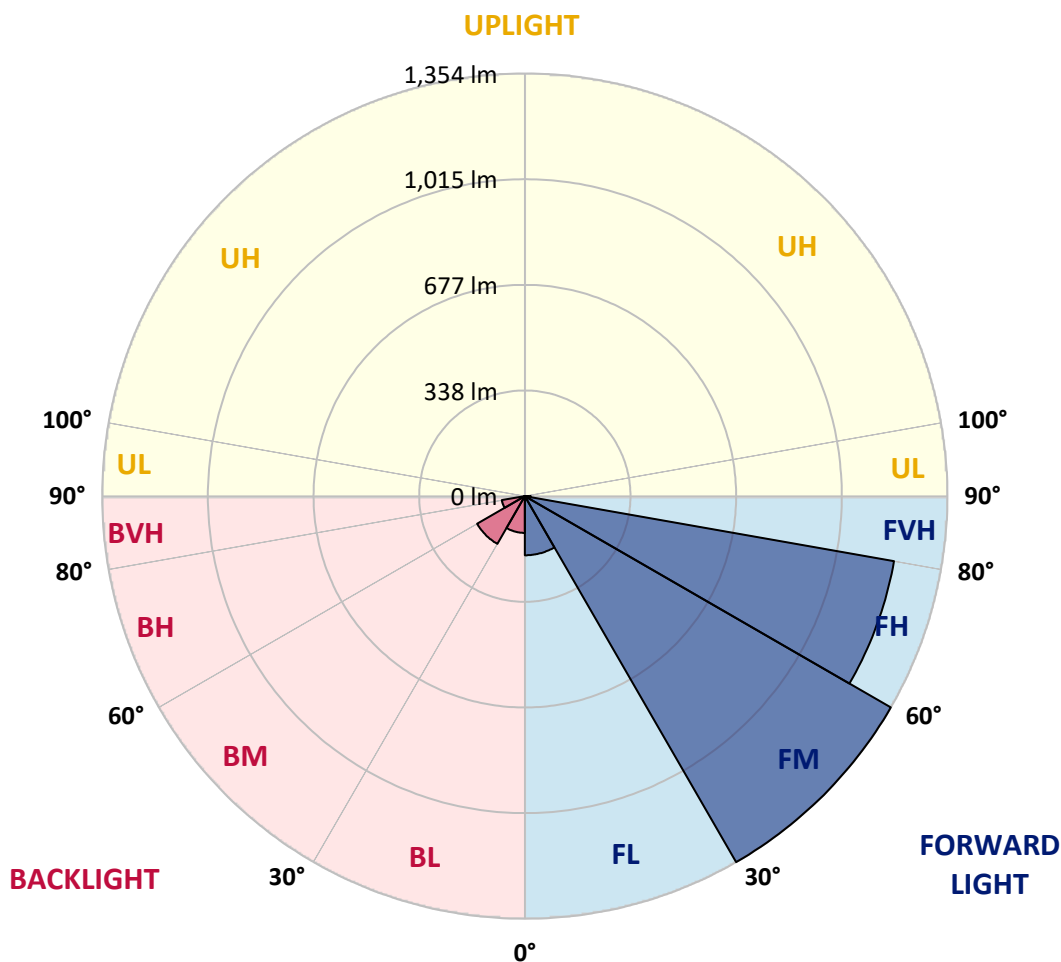
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	189.5	6.1			
FM (30°-60°)	1353.7	43.2			
FH (60°-80°)	1200.7	38.3			G1/1800
FVH (80°-90°)	19.1	0.6			G1/100
BL (0°-30°)	117.7	3.8	B1/500		
BM (30°-60°)	176.5	5.6	B0/220		
BH (60°-80°)	74.7	2.4	B0/110		G0/110
BVH (80°-90°)	0.3	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°	386.5	386.5	386.5	386.5	386.5	386.5	386.5	386.5	386.5	386.5	386.5
2.5°	380.9	378.5	380.9	384.1	380.9	383.3	382.5	384.9	381.7	381.7	384.1
5°	356.1	360.1	361.7	365.7	369.7	376.9	381.7	381.7	386.5	388.9	392.1
7.5°	347.3	340.9	347.3	350.5	354.5	366.5	373.7	376.9	383.3	392.1	396.9
10°	334.5	339.3	339.3	349.7	355.3	362.5	375.3	377.7	392.1	400.9	405.7
12.5°	333.7	333.7	337.7	344.9	356.1	369.7	385.7	380.9	396.1	412.1	420.1
15°	336.1	341.7	341.7	351.3	360.1	379.3	392.9	393.7	415.3	431.3	438.5
17.5°	346.5	344.1	347.3	352.9	366.5	384.9	407.3	409.7	434.5	456.1	466.5
20°	368.1	372.1	367.3	364.1	369.7	393.7	422.5	427.3	455.3	476.1	486.5
22.5°	448.9	445.7	426.5	404.1	394.5	405.7	436.9	448.1	480.9	505.7	514.5
25°	540.1	534.5	512.1	478.5	434.5	429.7	465.7	465.7	512.9	540.1	537.7
27.5°	626.5	624.9	598.5	563.3	500.9	466.5	488.9	497.7	548.9	571.3	560.9
30°	714.5	716.1	692.1	649.7	584.1	525.7	521.7	528.9	576.1	611.3	589.7
32.5°	816.9	802.5	785.7	727.3	667.3	601.7	564.1	560.9	606.5	638.5	609.7
35°	908.2	899.4	881.0	828.1	759.3	680.9	628.1	620.1	644.9	687.3	656.1
37.5°	988.2	979.4	955.4	920.2	866.6	779.3	704.9	692.9	703.3	748.1	710.5
40°	1057.0	1059.4	1053.0	1018.6	969.0	889.8	804.1	784.9	776.1	816.1	773.7
42.5°	1106.6	1129.8	1131.4	1089.0	1049.0	1005.8	909.8	894.6	873.8	907.4	877.8
45°	1210.6	1197.8	1205.8	1190.6	1146.6	1140.2	1031.4	1022.6	993.8	1005.0	973.8
47.5°	1292.2	1289.8	1305.0	1280.2	1268.2	1269.0	1169.8	1154.6	1113.8	1134.6	1099.4
50°	1339.4	1326.6	1381.8	1401.1	1398.7	1408.3	1309.8	1297.0	1257.8	1288.2	1213.0
52.5°	1350.6	1373.8	1425.9	1495.5	1525.1	1545.1	1462.7	1457.9	1415.5	1434.7	1330.6
55°	1378.6	1401.1	1431.5	1545.9	1655.5	1660.3	1613.1	1617.9	1580.3	1575.5	1442.7
57.5°	1377.8	1373.0	1457.1	1589.9	1741.9	1810.7	1785.1	1761.9	1721.1	1673.9	1514.7
60°	1327.4	1325.0	1412.3	1595.5	1789.1	1946.7	1957.2	1929.9	1827.5	1757.9	1599.5
62.5°	1227.4	1237.0	1325.0	1547.5	1833.9	1995.6	2034.0	2015.6	1888.3	1813.9	1699.5
65°	1113.0	1093.0	1195.4	1427.5	1733.1	1981.2	2064.4	2058.0	1960.4	1874.7	1791.5
67.5°	893.0	901.8	980.2	1228.2	1561.1	1928.3	2135.6	2145.2	2018.0	1928.3	1819.5
70°	565.7	581.7	663.3	887.4	1274.6	1761.9	2199.6	2227.6	2063.6	1923.5	1737.9
72.5°	164.8	171.2	282.5	442.5	812.1	1413.1	2097.2	2111.6	1974.8	1745.9	1344.2
75°	54.4	57.6	83.2	144.0	318.5	730.5	1549.1	1617.1	1571.5	1265.8	768.9
77.5°	36.0	37.6	45.6	68.8	120.8	228.8	830.5	903.4	885.8	592.9	248.0
80°	26.4	27.2	33.6	46.4	73.6	82.4	306.5	354.5	342.5	136.0	49.6
82.5°	16.8	16.8	24.8	32.8	46.4	40.8	88.8	98.4	96.0	52.0	19.2
85°	11.2	12.0	18.4	25.6	25.6	19.2	25.6	29.6	32.0	28.0	8.8
87.5°	3.2	4.0	10.4	17.6	10.4	9.6	8.8	9.6	11.2	15.2	4.8
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°	386.5	386.5	386.5	386.5	386.5	386.5	386.5	386.5	386.5	386.5	386.5
2.5°	386.5	389.7	388.9	390.5	388.1	385.7	388.1	388.1	388.1	385.7	384.1
5°	389.7	388.1	389.7	386.5	389.7	386.5	384.9	380.1	379.3	379.3	382.5
7.5°	394.5	396.1	388.9	388.9	381.7	383.3	379.3	380.1	378.5	376.1	374.5
10°	401.7	408.1	400.9	398.5	390.5	384.1	374.5	369.7	369.7	366.5	369.7
12.5°	421.7	419.3	415.3	407.3	397.7	384.9	361.7	338.5	319.3	304.9	312.1
15°	437.7	436.9	431.3	416.1	403.3	364.1	305.7	245.6	213.6	199.2	196.8
17.5°	462.5	460.1	450.5	430.5	388.1	301.7	209.6	159.2	128.0	120.8	118.4
20°	485.7	484.9	464.1	438.5	349.7	220.0	136.8	104.8	96.0	96.8	95.2
22.5°	510.5	506.5	481.7	428.9	278.4	146.4	97.6	93.6	90.4	89.6	91.2
25°	538.5	524.1	499.3	407.3	204.8	100.8	92.0	88.8	85.6	84.8	84.8
27.5°	549.7	540.1	507.3	355.3	129.6	88.0	86.4	82.4	78.4	76.0	75.2
30°	575.3	559.3	515.3	279.3	92.0	80.8	78.4	73.6	68.0	64.0	64.0
32.5°	600.9	581.7	516.1	195.2	76.8	72.8	68.8	62.4	55.2	51.2	52.0
35°	632.9	606.5	507.3	126.4	68.8	64.0	56.0	48.8	42.4	39.2	39.2
37.5°	687.3	662.5	471.3	83.2	62.4	54.4	46.4	38.4	32.8	30.4	30.4
40°	756.1	724.1	421.7	65.6	55.2	46.4	36.8	29.6	26.4	24.0	24.0
42.5°	838.6	798.5	348.1	58.4	48.8	38.4	28.8	23.2	20.0	20.0	19.2
45°	921.0	855.4	272.8	53.6	43.2	32.0	22.4	18.4	16.8	16.0	16.0
47.5°	1038.6	924.2	195.2	48.8	37.6	24.8	18.4	15.2	13.6	12.8	13.6
50°	1151.4	989.0	138.4	44.0	31.2	20.0	15.2	13.6	12.0	11.2	11.2
52.5°	1250.6	1033.8	96.8	38.4	26.4	16.8	13.6	12.0	11.2	10.4	10.4
55°	1305.0	1018.6	66.4	32.8	21.6	14.4	12.0	10.4	9.6	8.8	8.8
57.5°	1361.0	976.2	50.4	27.2	17.6	13.6	11.2	9.6	8.8	8.0	8.0
60°	1408.3	945.0	39.2	21.6	14.4	11.2	9.6	8.0	7.2	6.4	5.6
62.5°	1410.7	882.6	28.8	16.0	11.2	9.6	8.0	6.4	4.0	3.2	2.4
65°	1420.3	816.9	20.8	12.0	8.0	7.2	5.6	3.2	1.6	0.0	0.0
67.5°	1386.6	739.3	16.8	8.8	5.6	4.0	2.4	0.8	0.0	0.0	0.0
70°	1249.8	624.1	12.8	6.4	4.0	2.4	0.8	0.0	0.0	0.0	0.0
72.5°	894.6	405.7	8.8	4.8	1.6	0.8	0.0	0.0	0.0	0.0	0.0
75°	476.9	172.8	6.4	3.2	0.8	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	149.6	44.0	4.0	1.6	0.8	0.0	0.0	0.0	0.0	0.0	0.0
80°	32.8	12.0	2.4	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	11.2	4.8	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	4.0	1.6	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.6	0.8	0.8	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)