

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: P676487

Luminaire Tested: **CCW-SA-1D-840-U-T3-HSS**

Issue Date: 04/25/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P676487  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 04/25/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCW-SA-1D-840-U-T3-HSS  
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @800mA w/  
T3 distribution lens and House Side Shield  
Light Source: (16) 4000K CCT, 80 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3425.5 lumens  
Efficiency: N/A  
Efficacy: 77.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B1 - U0 - G1

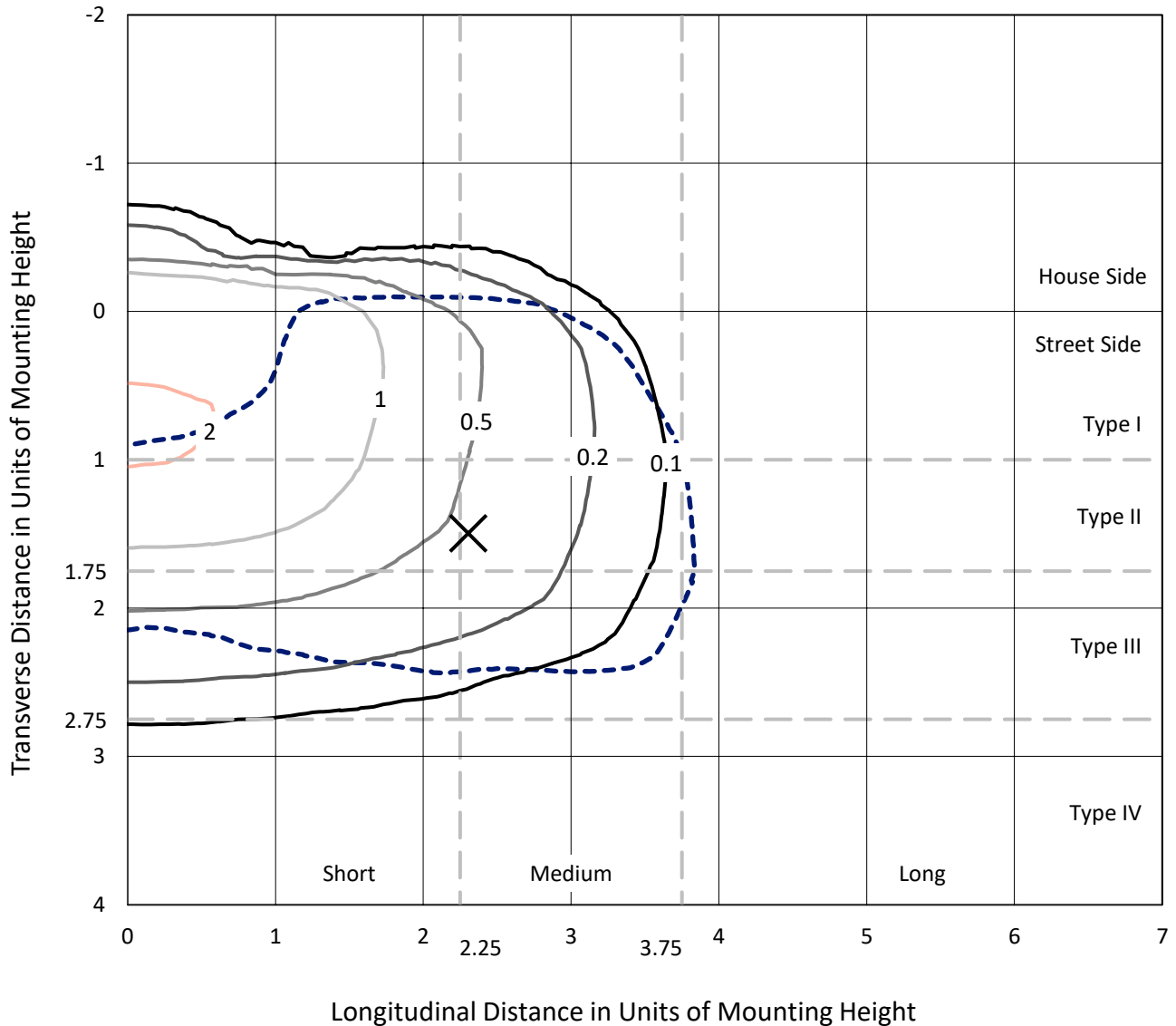
Input Watts (W): 44  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

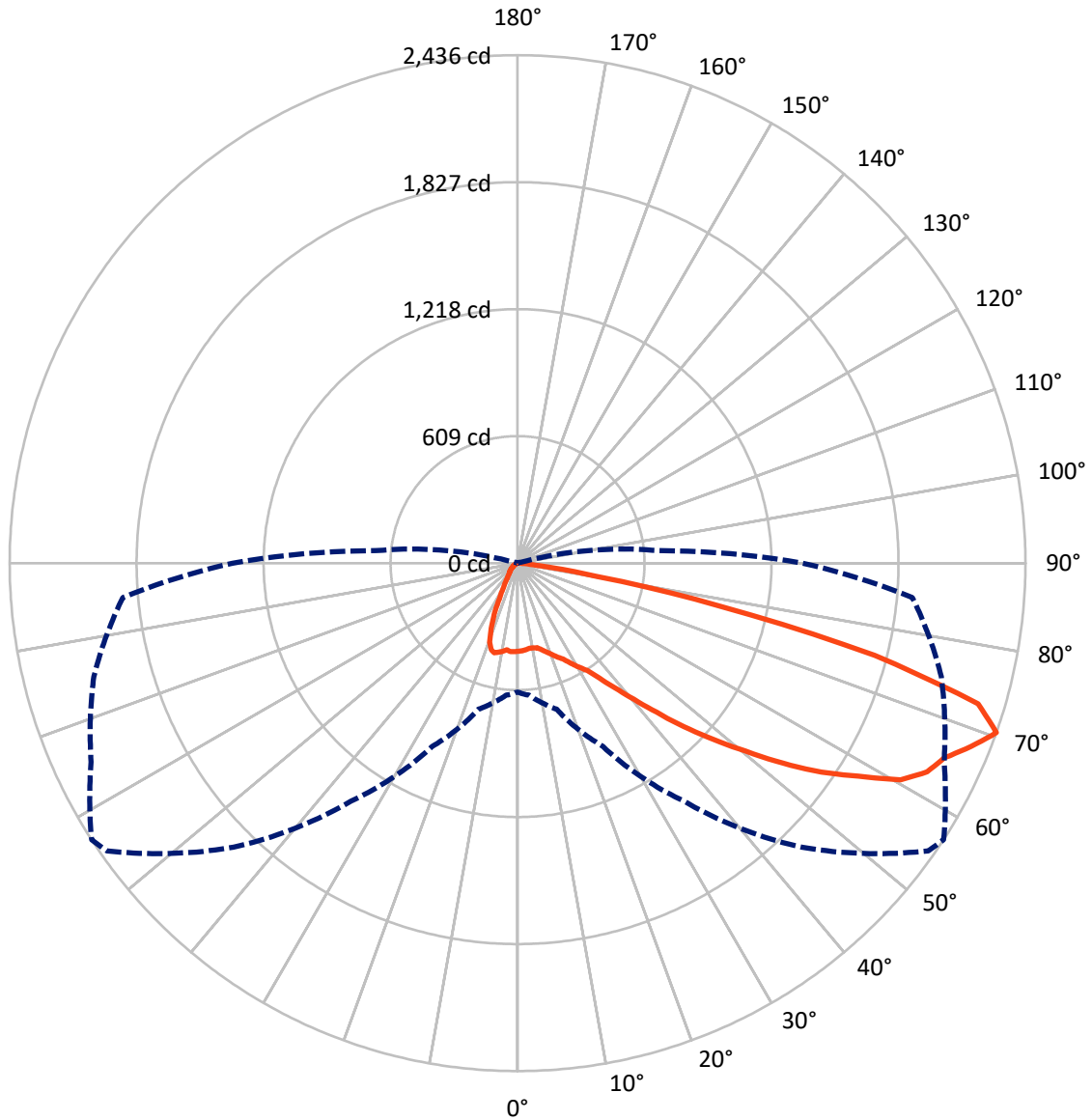
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 2.4 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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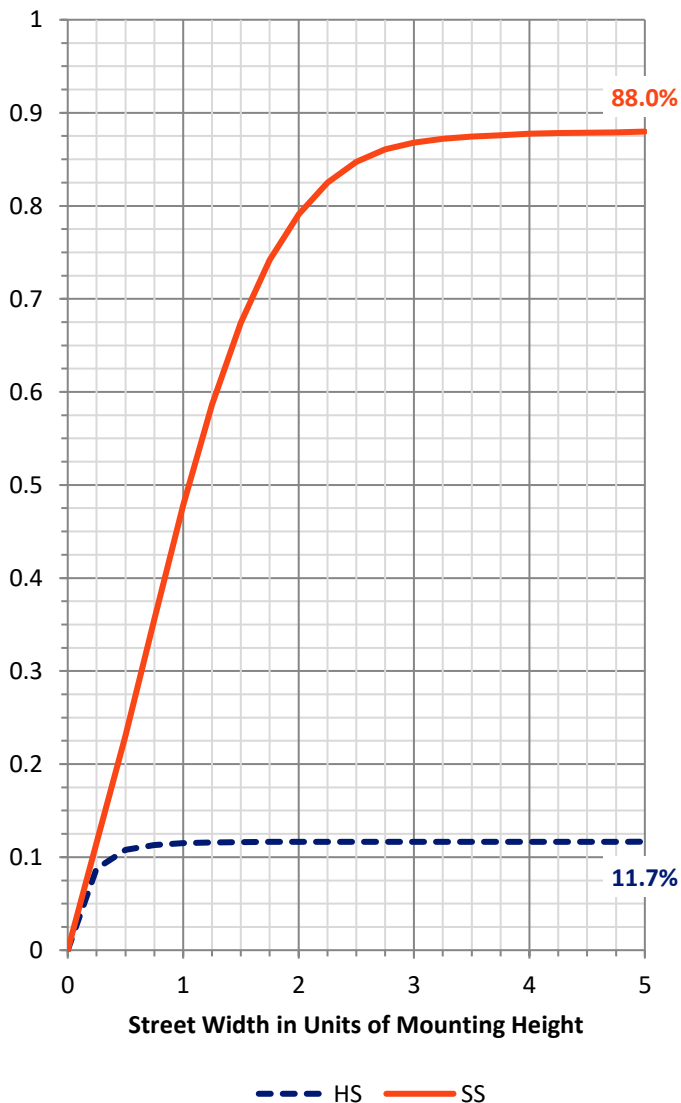
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	403.8	0.0	403.8
	% Fixture	11.8	0.0	11.8
<b>Street Side</b>	Lumens	3021.7	0.0	3021.7
	% Fixture	88.2	0.0	88.2
<b>Total</b>	Lumens	3425.5	0.0	3425.5
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	39.5	1.2
10°-20°	110.4	3.2
20°-30°	186.0	5.4
30°-40°	318.4	9.3
40°-50°	534.6	15.6
50°-60°	820.5	24.0
60°-70°	947.3	27.7
70°-80°	447.5	13.1
80°-90°	21.2	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°	3425.5	100.0
0°-180°	3425.5	100.0



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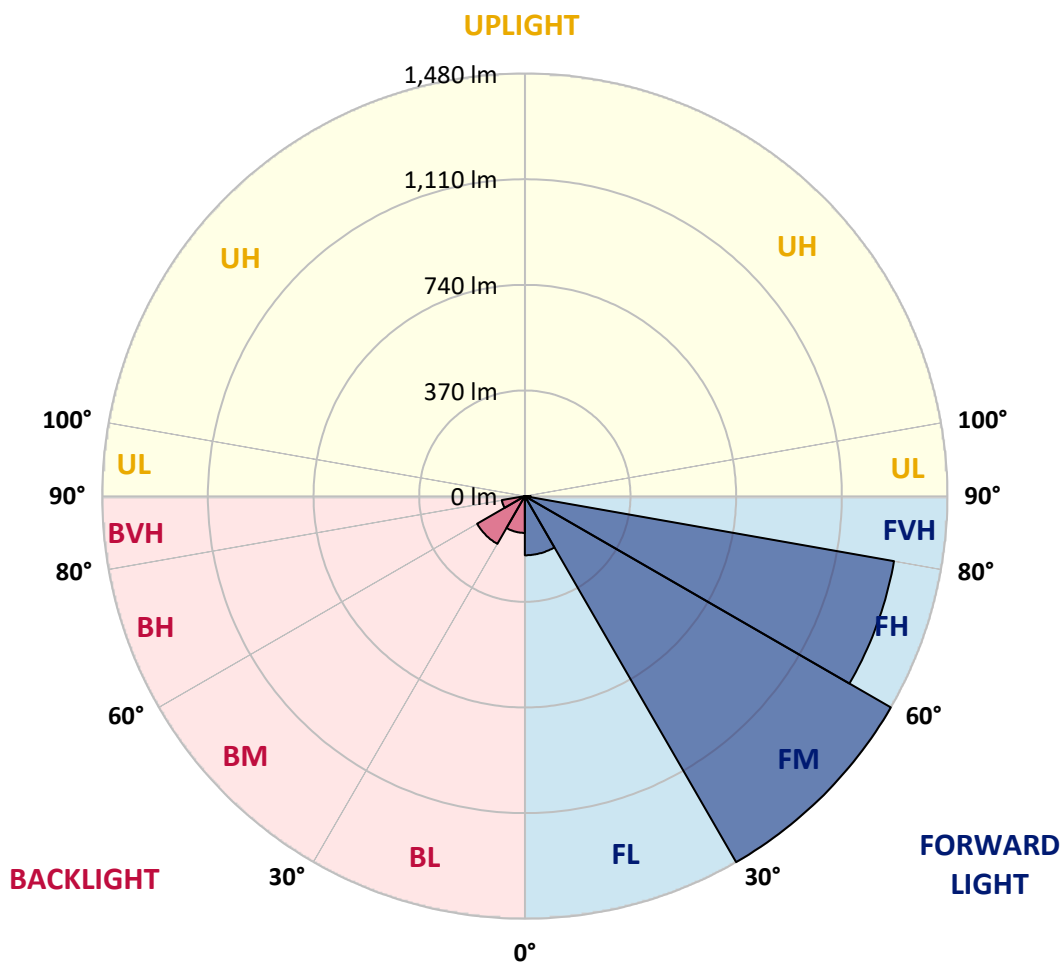
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	207.2	6.0			
FM (30°-60°)	1480.4	43.2			
FH (60°-80°)	1313.2	38.3			G1/1800
FVH (80°-90°)	20.9	0.6			G1/100
BL (0°-30°)	128.7	3.8	B1/500		
BM (30°-60°)	193.0	5.6	B0/220		
BH (60°-80°)	81.7	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°	422.7	422.7	422.7	422.7	422.7	422.7	422.7	422.7	422.7	422.7	422.7
2.5°	416.5	413.9	416.5	420.0	416.5	419.2	418.3	420.9	417.4	417.4	420.0
5°	389.4	393.8	395.5	399.9	404.3	412.2	417.4	417.4	422.7	425.3	428.8
7.5°	379.8	372.8	379.8	383.3	387.7	400.8	408.7	412.2	419.2	428.8	434.0
10°	365.8	371.0	371.0	382.4	388.5	396.4	410.4	413.0	428.8	438.4	443.7
12.5°	364.9	364.9	369.3	377.2	389.4	404.3	421.8	416.5	433.2	450.7	459.4
15°	367.5	373.7	373.7	384.2	393.8	414.8	429.7	430.5	454.2	471.7	479.5
17.5°	378.9	376.3	379.8	385.9	400.8	420.9	445.4	448.0	475.2	498.8	510.2
20°	402.5	406.9	401.7	398.2	404.3	430.5	462.0	467.3	497.9	520.7	532.0
22.5°	490.9	487.4	466.4	441.9	431.4	443.7	477.8	490.0	525.9	553.0	562.7
25°	590.7	584.5	560.0	523.3	475.2	469.9	509.3	509.3	560.9	590.7	588.0
27.5°	685.2	683.4	654.5	616.0	547.8	510.2	534.7	544.3	600.3	624.8	613.4
30°	781.4	783.2	756.9	710.6	638.8	574.9	570.5	578.4	630.0	668.5	644.9
32.5°	893.4	877.7	859.3	795.4	729.8	658.0	616.9	613.4	663.3	698.3	666.8
35°	993.2	983.6	963.4	905.7	830.4	744.7	686.9	678.2	705.3	751.7	717.6
37.5°	1080.7	1071.1	1044.8	1006.3	947.7	852.3	770.9	757.8	769.2	818.2	777.1
40°	1156.0	1158.6	1151.6	1114.0	1059.7	973.1	879.4	858.4	848.8	892.6	846.2
42.5°	1210.2	1235.6	1237.3	1191.0	1147.2	1100.0	994.9	978.3	955.6	992.3	959.9
45°	1324.0	1310.0	1318.7	1302.1	1254.0	1247.0	1128.0	1118.3	1086.8	1099.1	1065.0
47.5°	1413.2	1410.6	1427.2	1400.1	1387.0	1387.9	1279.3	1262.7	1218.1	1240.8	1202.3
50°	1464.9	1450.9	1511.2	1532.2	1529.6	1540.1	1432.5	1418.5	1375.6	1408.9	1326.6
52.5°	1477.1	1502.5	1559.4	1635.5	1667.9	1689.8	1599.6	1594.4	1548.0	1569.0	1455.2
55°	1507.7	1532.2	1565.5	1690.6	1810.5	1815.8	1764.1	1769.4	1728.3	1723.0	1577.7
57.5°	1506.9	1501.6	1593.5	1738.8	1905.0	1980.3	1952.3	1926.9	1882.3	1830.6	1656.5
60°	1451.7	1449.1	1544.5	1744.9	1956.6	2129.0	2140.4	2110.7	1998.6	1922.5	1749.3
62.5°	1342.3	1352.9	1449.1	1692.4	2005.6	2182.4	2224.4	2204.3	2065.2	1983.8	1858.6
65°	1217.2	1195.3	1307.3	1561.1	1895.4	2166.7	2257.7	2250.7	2143.9	2050.3	1959.3
67.5°	976.6	986.2	1072.0	1343.2	1707.3	2108.9	2335.5	2346.0	2206.9	2108.9	1989.9
70°	618.7	636.2	725.4	970.4	1394.0	1926.9	2405.6	2436.2	2256.8	2103.7	1900.6
72.5°	180.3	187.3	308.9	483.9	888.2	1545.4	2293.5	2309.3	2159.7	1909.4	1470.1
75°	59.5	63.0	91.0	157.5	348.3	798.9	1694.1	1768.5	1718.6	1384.4	840.9
77.5°	39.4	41.1	49.9	75.3	132.1	250.3	908.3	987.9	968.7	648.4	271.3
80°	28.9	29.8	36.8	50.8	80.5	90.1	335.1	387.7	374.5	148.8	54.3
82.5°	18.4	18.4	27.1	35.9	50.8	44.6	97.1	107.6	105.0	56.9	21.0
85°	12.3	13.1	20.1	28.0	28.0	21.0	28.0	32.4	35.0	30.6	9.6
87.5°	3.5	4.4	11.4	19.3	11.4	10.5	9.6	10.5	12.3	16.6	5.3
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°	422.7	422.7	422.7	422.7	422.7	422.7	422.7	422.7	422.7	422.7	422.7
2.5°	422.7	426.2	425.3	427.0	424.4	421.8	424.4	424.4	424.4	421.8	420.0
5°	426.2	424.4	426.2	422.7	426.2	422.7	420.9	415.7	414.8	414.8	418.3
7.5°	431.4	433.2	425.3	425.3	417.4	419.2	414.8	415.7	413.9	411.3	409.5
10°	439.3	446.3	438.4	435.8	427.0	420.0	409.5	404.3	404.3	400.8	404.3
12.5°	461.2	458.5	454.2	445.4	434.9	420.9	395.5	370.2	349.2	333.4	341.3
15°	478.7	477.8	471.7	455.0	441.0	398.2	334.3	268.6	233.6	217.9	215.3
17.5°	505.8	503.2	492.7	470.8	424.4	329.9	229.3	174.1	140.0	132.1	129.5
20°	531.2	530.3	507.5	479.5	382.4	240.6	149.6	114.6	105.0	105.9	104.1
22.5°	558.3	553.9	526.8	469.0	304.5	160.1	106.8	102.4	98.9	98.0	99.8
25°	588.9	573.2	546.0	445.4	224.0	110.3	100.6	97.1	93.6	92.8	92.8
27.5°	601.2	590.7	554.8	388.5	141.8	96.3	94.5	90.1	85.8	83.1	82.3
30°	629.2	611.7	563.5	305.4	100.6	88.4	85.8	80.5	74.4	70.0	70.0
32.5°	657.2	636.2	564.4	213.5	84.0	79.6	75.3	68.3	60.4	56.0	56.9
35°	692.2	663.3	554.8	138.3	75.3	70.0	61.3	53.4	46.4	42.9	42.9
37.5°	751.7	724.6	515.4	91.0	68.3	59.5	50.8	42.0	35.9	33.3	33.3
40°	826.9	791.9	461.2	71.8	60.4	50.8	40.3	32.4	28.9	26.3	26.3
42.5°	917.1	873.3	380.7	63.9	53.4	42.0	31.5	25.4	21.9	21.9	21.0
45°	1007.2	935.4	298.4	58.6	47.3	35.0	24.5	20.1	18.4	17.5	17.5
47.5°	1135.8	1010.7	213.5	53.4	41.1	27.1	20.1	16.6	14.9	14.0	14.9
50°	1259.2	1081.6	151.4	48.1	34.1	21.9	16.6	14.9	13.1	12.3	12.3
52.5°	1367.7	1130.6	105.9	42.0	28.9	18.4	14.9	13.1	12.3	11.4	11.4
55°	1427.2	1114.0	72.6	35.9	23.6	15.8	13.1	11.4	10.5	9.6	9.6
57.5°	1488.5	1067.6	55.1	29.8	19.3	14.9	12.3	10.5	9.6	8.8	8.8
60°	1540.1	1033.5	42.9	23.6	15.8	12.3	10.5	8.8	7.9	7.0	6.1
62.5°	1542.7	965.2	31.5	17.5	12.3	10.5	8.8	7.0	4.4	3.5	2.6
65°	1553.2	893.4	22.8	13.1	8.8	7.9	6.1	3.5	1.8	0.0	0.0
67.5°	1516.5	808.6	18.4	9.6	6.1	4.4	2.6	0.9	0.0	0.0	0.0
70°	1366.9	682.6	14.0	7.0	4.4	2.6	0.9	0.0	0.0	0.0	0.0
72.5°	978.3	443.7	9.6	5.3	1.8	0.9	0.0	0.0	0.0	0.0	0.0
75°	521.5	189.0	7.0	3.5	0.9	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	163.6	48.1	4.4	1.8	0.9	0.0	0.0	0.0	0.0	0.0	0.0
80°	35.9	13.1	2.6	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	12.3	5.3	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	4.4	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)