

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: P676486

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

Issue Date: 04/25/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P676486  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 04/25/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCW-SA-1C-840-U-T3-HSS  
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @615mA w/  
T3 distribution lens and House Side Shield  
Light Source: (16) 4000K CCT, 80 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

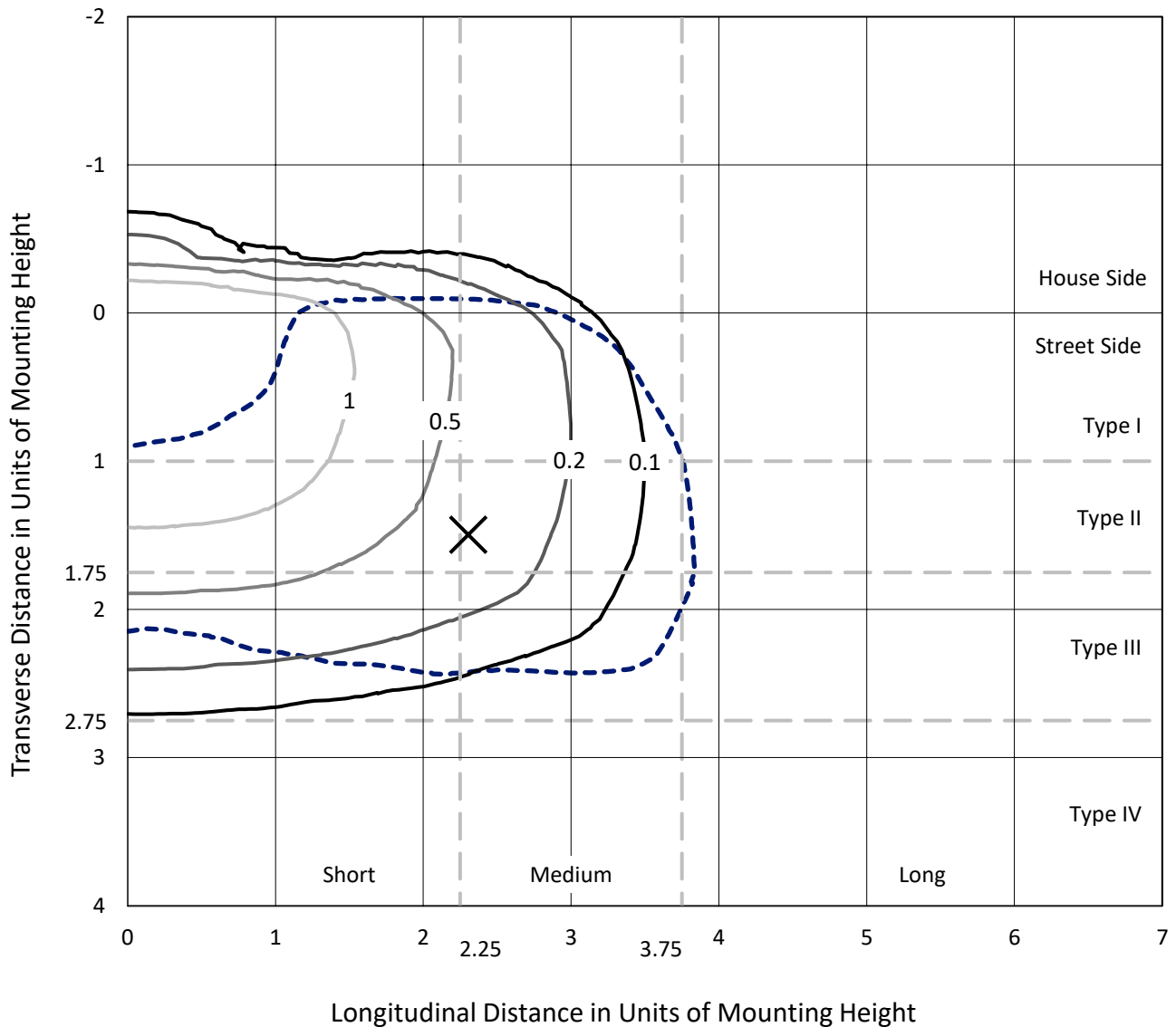
Lumens per Lamp: N/A  
Luminaire Lumens: 2777.1 lumens  
Efficiency: N/A  
Efficacy: 86.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B0 - U0 - G1

Input Watts (W): 32  
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

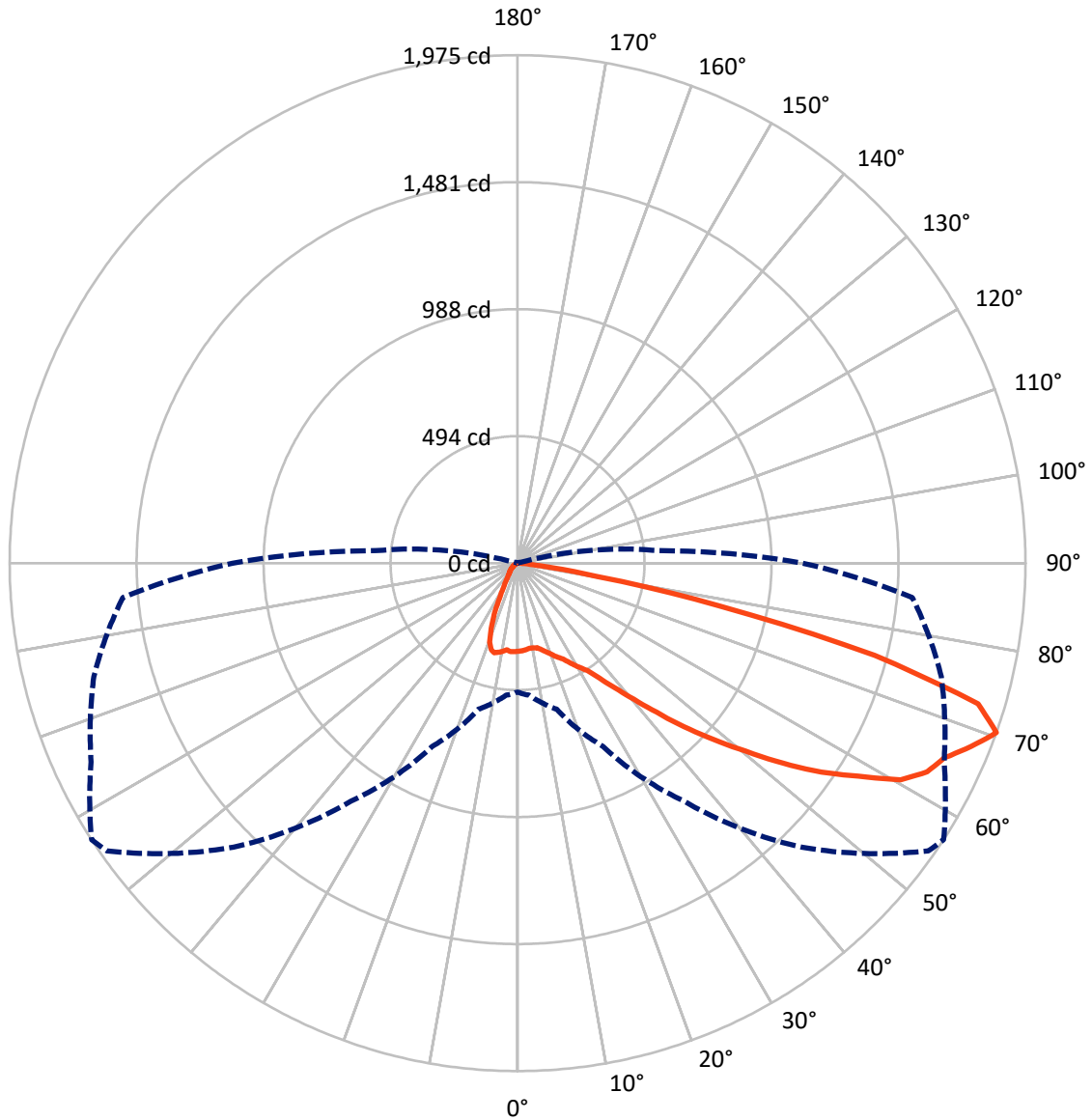
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 2 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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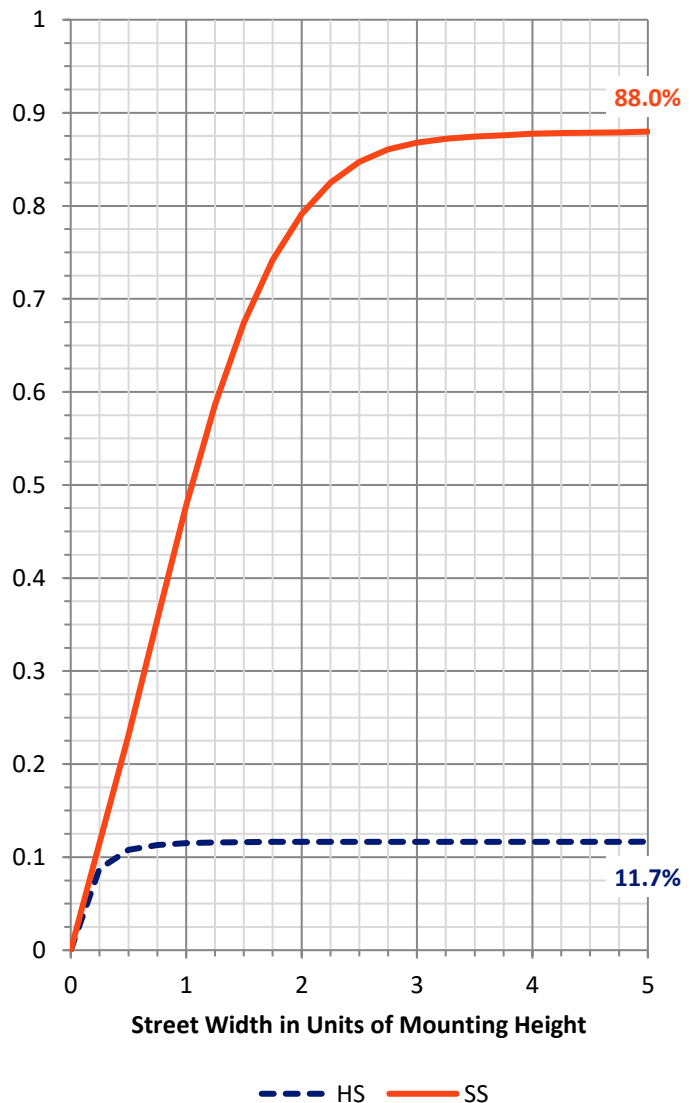
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	327.3	0.0	327.3
	% Fixture	11.8	0.0	11.8
<b>Street Side</b>	Lumens	2449.7	0.0	2449.7
	% Fixture	88.2	0.0	88.2
<b>Total</b>	Lumens	2777.1	0.0	2777.1
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	32.0	1.2
10°-20°	89.5	3.2
20°-30°	150.8	5.4
30°-40°	258.1	9.3
40°-50°	433.4	15.6
50°-60°	665.2	24.0
60°-70°	768.0	27.7
70°-80°	362.8	13.1
80°-90°	17.2	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°	2777.1	100.0
0°-180°	2777.1	100.0

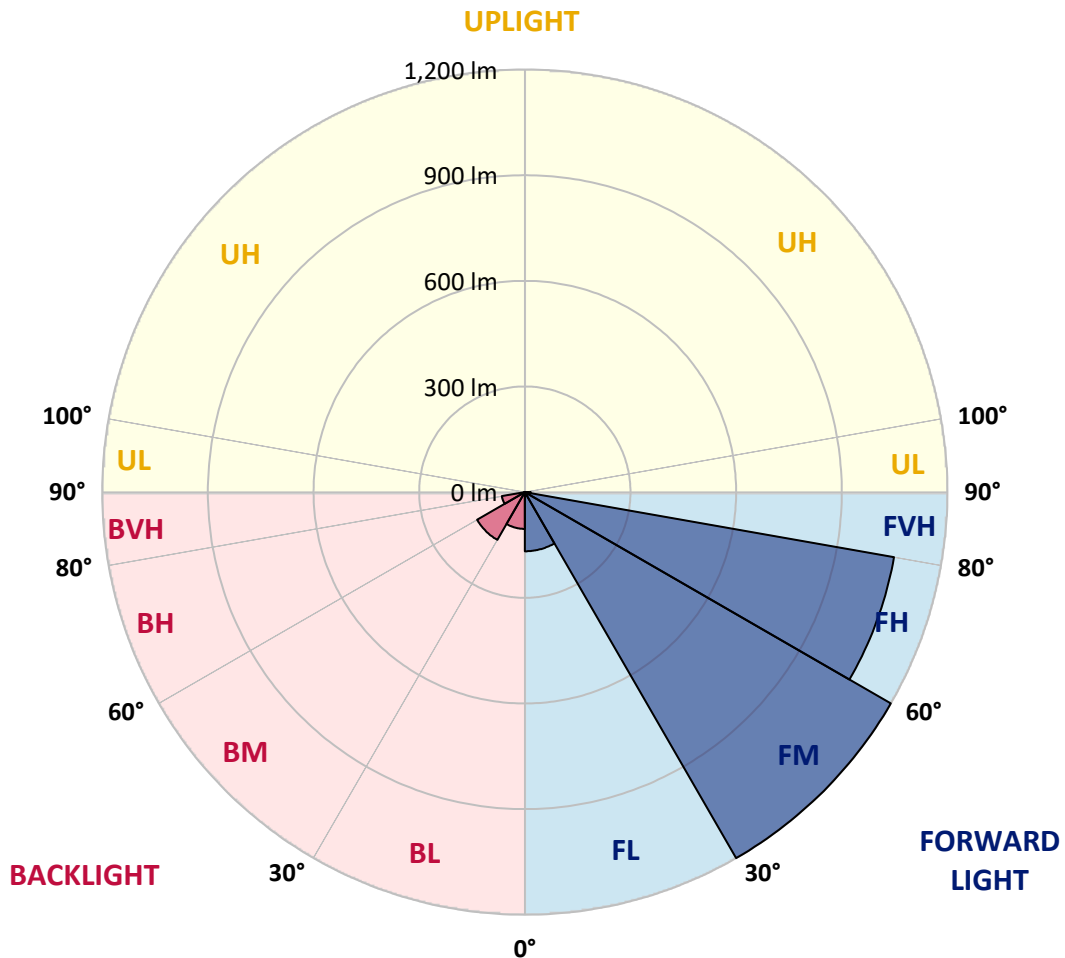


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	168.0	6.0			
FM (30°-60°)	1200.2	43.2			
FH (60°-80°)	1064.6	38.3			G1/1800
FVH (80°-90°)	16.9	0.6			G1/100
BL (0°-30°)	104.4	3.8	B0/110		
BM (30°-60°)	156.5	5.6	B0/220		
BH (60°-80°)	66.2	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: B0-U0-G1**  
 Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	342.7	342.7	342.7	342.7	342.7	342.7	342.7	342.7	342.7	342.7	342.7
2.5°	337.7	335.6	337.7	340.5	337.7	339.8	339.1	341.2	338.4	338.4	340.5
5°	315.7	319.2	320.7	324.2	327.8	334.1	338.4	338.4	342.7	344.8	347.6
7.5°	307.9	302.2	307.9	310.7	314.3	324.9	331.3	334.1	339.8	347.6	351.9
10°	296.5	300.8	300.8	310.0	315.0	321.4	332.7	334.8	347.6	355.4	359.7
12.5°	295.8	295.8	299.4	305.8	315.7	327.8	341.9	337.7	351.2	365.4	372.4
15°	298.0	302.9	302.9	311.4	319.2	336.3	348.3	349.0	368.2	382.4	388.8
17.5°	307.2	305.1	307.9	312.9	324.9	341.2	361.1	363.2	385.2	404.4	413.6
20°	326.3	329.9	325.6	322.8	327.8	349.0	374.6	378.8	403.7	422.1	431.3
22.5°	398.0	395.2	378.1	358.3	349.7	359.7	387.3	397.3	426.4	448.4	456.2
25°	478.9	473.9	454.0	424.2	385.2	381.0	412.9	412.9	454.7	478.9	476.7
27.5°	555.5	554.1	530.7	499.4	444.1	413.6	433.5	441.3	486.7	506.5	497.3
30°	633.5	634.9	613.7	576.1	517.9	466.1	462.5	468.9	510.8	542.0	522.8
32.5°	724.3	711.6	696.7	644.9	591.7	533.5	500.1	497.3	537.7	566.1	540.6
35°	805.2	797.4	781.1	734.3	673.2	603.7	556.9	549.8	571.8	609.4	581.7
37.5°	876.1	868.3	847.1	815.8	768.3	691.0	625.0	614.4	623.6	663.3	630.0
40°	937.2	939.3	933.6	903.1	859.1	788.9	713.0	695.9	688.1	723.6	686.0
42.5°	981.1	1001.7	1003.1	965.5	930.1	891.7	806.6	793.1	774.7	804.5	778.2
45°	1073.4	1062.0	1069.1	1055.6	1016.6	1010.9	914.5	906.6	881.1	891.0	863.4
47.5°	1145.7	1143.6	1157.1	1135.1	1124.4	1125.2	1037.2	1023.7	987.5	1006.0	974.8
50°	1187.6	1176.2	1225.2	1242.2	1240.1	1248.6	1161.3	1150.0	1115.2	1142.2	1075.5
52.5°	1197.5	1218.1	1264.2	1325.9	1352.2	1369.9	1296.8	1292.6	1255.0	1272.0	1179.8
55°	1222.3	1242.2	1269.2	1370.6	1467.8	1472.1	1430.2	1434.5	1401.1	1396.9	1279.1
57.5°	1221.6	1217.4	1291.9	1409.6	1544.4	1605.4	1582.7	1562.2	1526.0	1484.1	1342.9
60°	1176.9	1174.8	1252.1	1414.6	1586.3	1726.0	1735.3	1711.1	1620.3	1558.6	1418.1
62.5°	1088.3	1096.8	1174.8	1372.0	1626.0	1769.3	1803.4	1787.0	1674.2	1608.3	1506.8
65°	986.8	969.1	1059.9	1265.6	1536.6	1756.5	1830.3	1824.6	1738.1	1662.2	1588.4
67.5°	791.7	799.5	869.0	1089.0	1384.1	1709.7	1893.5	1902.0	1789.2	1709.7	1613.2
70°	501.6	515.8	588.1	786.8	1130.1	1562.2	1950.2	1975.0	1829.6	1705.5	1540.9
72.5°	146.1	151.8	250.4	392.3	720.1	1252.8	1859.4	1872.2	1750.9	1548.0	1191.8
75°	48.2	51.1	73.8	127.7	282.4	647.7	1373.5	1433.8	1393.3	1122.3	681.8
77.5°	31.9	33.3	40.4	61.0	107.1	202.9	736.4	800.9	785.3	525.7	219.9
80°	23.4	24.1	29.8	41.1	65.3	73.1	271.7	314.3	303.6	120.6	44.0
82.5°	14.9	14.9	22.0	29.1	41.1	36.2	78.7	87.3	85.1	46.1	17.0
85°	9.9	10.6	16.3	22.7	22.7	17.0	22.7	26.2	28.4	24.8	7.8
87.5°	2.8	3.5	9.2	15.6	9.2	8.5	7.8	8.5	9.9	13.5	4.3
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°	342.7	342.7	342.7	342.7	342.7	342.7	342.7	342.7	342.7	342.7	342.7
2.5°	342.7	345.5	344.8	346.2	344.1	341.9	344.1	344.1	344.1	341.9	340.5
5°	345.5	344.1	345.5	342.7	345.5	342.7	341.2	337.0	336.3	336.3	339.1
7.5°	349.7	351.2	344.8	344.8	338.4	339.8	336.3	337.0	335.6	333.4	332.0
10°	356.1	361.8	355.4	353.3	346.2	340.5	332.0	327.8	327.8	324.9	327.8
12.5°	373.9	371.7	368.2	361.1	352.6	341.2	320.7	300.1	283.1	270.3	276.7
15°	388.1	387.3	382.4	368.9	357.6	322.8	271.0	217.8	189.4	176.6	174.5
17.5°	410.0	407.9	399.4	381.7	344.1	267.5	185.9	141.2	113.5	107.1	105.0
20°	430.6	429.9	411.5	388.8	310.0	195.1	121.3	92.9	85.1	85.8	84.4
22.5°	452.6	449.1	427.1	380.3	246.9	129.8	86.6	83.0	80.2	79.5	80.9
25°	477.4	464.7	442.7	361.1	181.6	89.4	81.6	78.7	75.9	75.2	75.2
27.5°	487.4	478.9	449.8	315.0	114.9	78.0	76.6	73.1	69.5	67.4	66.7
30°	510.1	495.9	456.9	247.6	81.6	71.7	69.5	65.3	60.3	56.8	56.8
32.5°	532.8	515.8	457.6	173.1	68.1	64.6	61.0	55.3	49.0	45.4	46.1
35°	561.2	537.7	449.8	112.1	61.0	56.8	49.7	43.3	37.6	34.8	34.8
37.5°	609.4	587.4	417.9	73.8	55.3	48.2	41.1	34.1	29.1	27.0	27.0
40°	670.4	642.0	373.9	58.2	49.0	41.1	32.6	26.2	23.4	21.3	21.3
42.5°	743.5	708.0	308.6	51.8	43.3	34.1	25.5	20.6	17.7	17.7	17.0
45°	816.6	758.4	241.9	47.5	38.3	28.4	19.9	16.3	14.9	14.2	14.2
47.5°	920.8	819.4	173.1	43.3	33.3	22.0	16.3	13.5	12.1	11.4	12.1
50°	1020.9	876.9	122.7	39.0	27.7	17.7	13.5	12.1	10.6	9.9	9.9
52.5°	1108.8	916.6	85.8	34.1	23.4	14.9	12.1	10.6	9.9	9.2	9.2
55°	1157.1	903.1	58.9	29.1	19.2	12.8	10.6	9.2	8.5	7.8	7.8
57.5°	1206.7	865.5	44.7	24.1	15.6	12.1	9.9	8.5	7.8	7.1	7.1
60°	1248.6	837.8	34.8	19.2	12.8	9.9	8.5	7.1	6.4	5.7	5.0
62.5°	1250.7	782.5	25.5	14.2	9.9	8.5	7.1	5.7	3.5	2.8	2.1
65°	1259.2	724.3	18.4	10.6	7.1	6.4	5.0	2.8	1.4	0.0	0.0
67.5°	1229.4	655.5	14.9	7.8	5.0	3.5	2.1	0.7	0.0	0.0	0.0
70°	1108.1	553.4	11.4	5.7	3.5	2.1	0.7	0.0	0.0	0.0	0.0
72.5°	793.1	359.7	7.8	4.3	1.4	0.7	0.0	0.0	0.0	0.0	0.0
75°	422.8	153.2	5.7	2.8	0.7	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	132.7	39.0	3.5	1.4	0.7	0.0	0.0	0.0	0.0	0.0	0.0
80°	29.1	10.6	2.1	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	9.9	4.3	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	3.5	1.4	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.4	0.7	0.7	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)