

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: P676497

Luminaire Tested: **CCW-SA-1C-850-U-T3-HSS**

Issue Date: 04/25/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P676497  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 04/25/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCW-SA-1C-850-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) 5000K CCT, 80 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

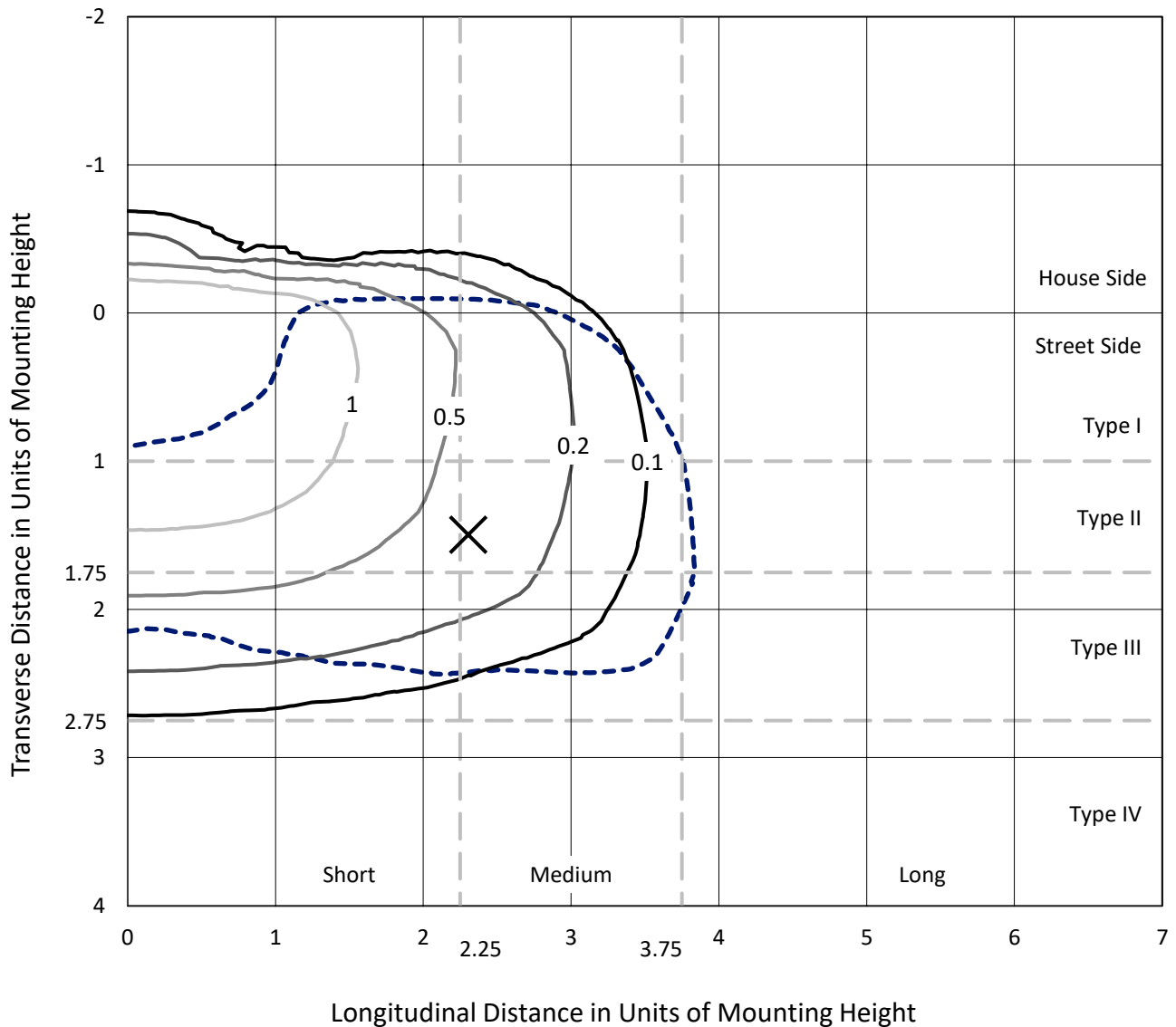
Lumens per Lamp: N/A  
Luminaire Lumens: 2842.2 lumens  
Efficiency: N/A  
Efficacy: 88.8 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B0 - U0 - G1

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

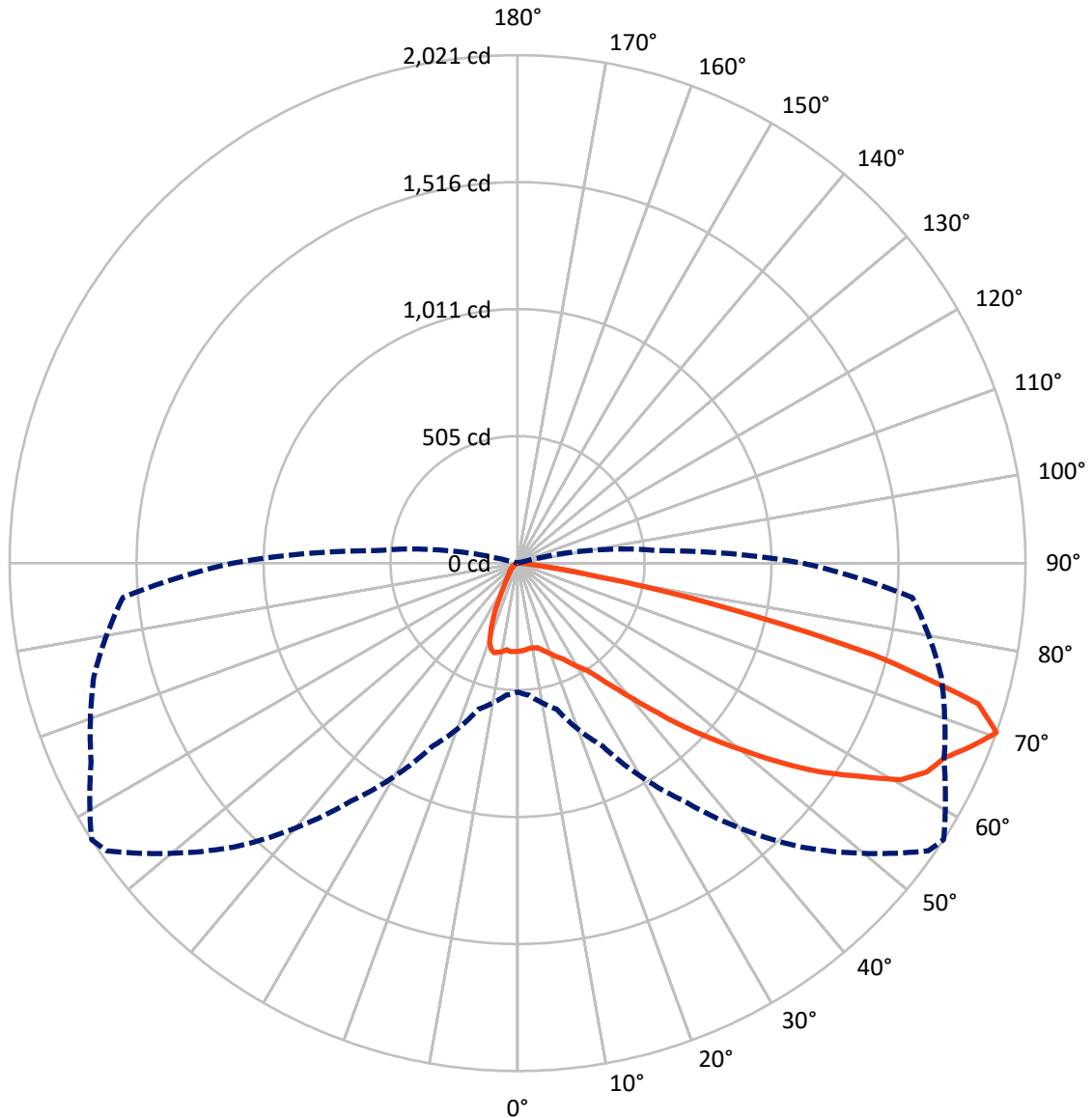
× Max cd  
 - - - 1/2 Max cd



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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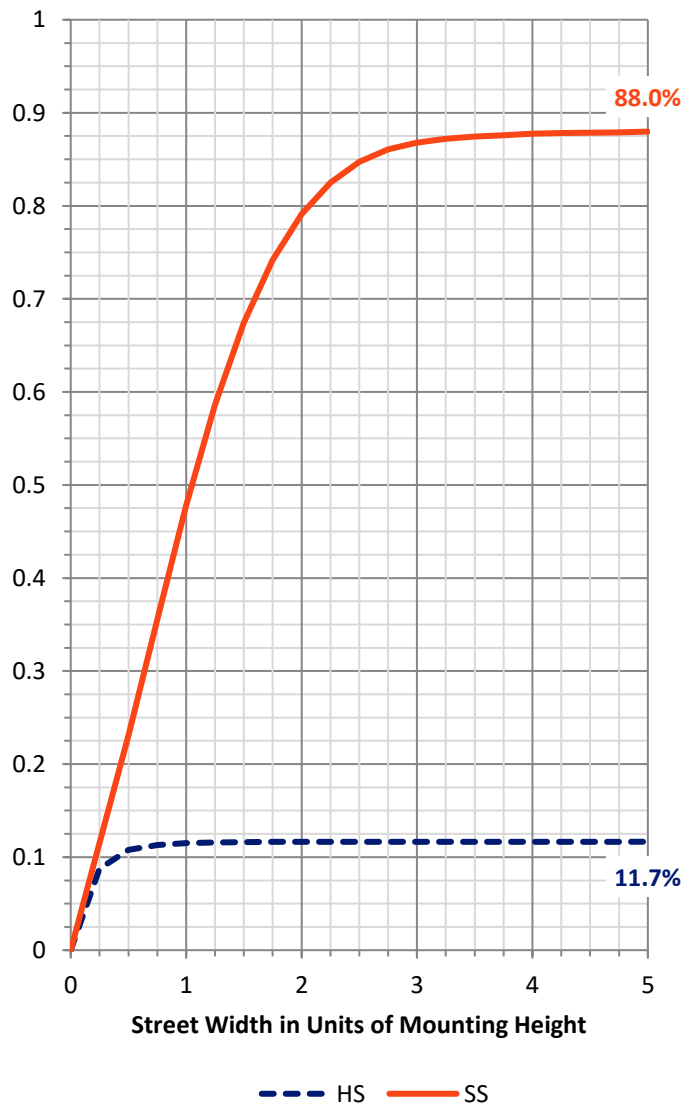
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	335.0	0.0	335.0
	% Fixture	11.8	0.0	11.8
<b>Street Side</b>	Lumens	2507.2	0.0	2507.2
	% Fixture	88.2	0.0	88.2
<b>Total</b>	Lumens	2842.2	0.0	2842.2
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	32.8	1.2
10°-20°	91.6	3.2
20°-30°	154.3	5.4
30°-40°	264.1	9.3
40°-50°	443.5	15.6
50°-60°	680.8	24.0
60°-70°	786.0	27.7
70°-80°	371.3	13.1
80°-90°	17.6	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°	2842.2	100.0
0°-180°	2842.2	100.0



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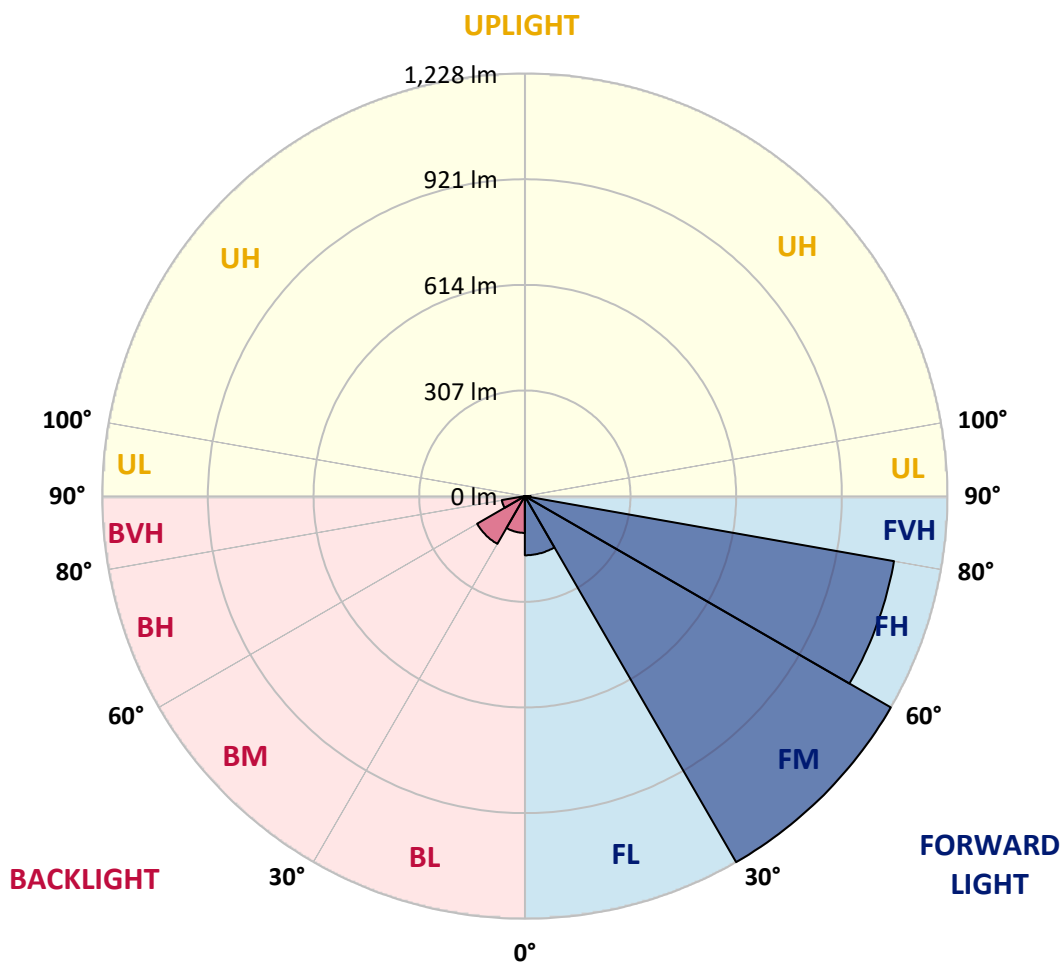
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	171.9	6.0			
FM (30°-60°)	1228.4	43.2			
FH (60°-80°)	1089.6	38.3			G1/1800
FVH (80°-90°)	17.3	0.6			G1/100
BL (0°-30°)	106.8	3.8	B0/110		
BM (30°-60°)	160.1	5.6	B0/220		
BH (60°-80°)	67.8	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°	350.7	350.7	350.7	350.7	350.7	350.7	350.7	350.7	350.7	350.7	350.7
2.5°	345.6	343.4	345.6	348.5	345.6	347.8	347.1	349.2	346.3	346.3	348.5
5°	323.1	326.7	328.2	331.8	335.4	342.0	346.3	346.3	350.7	352.9	355.8
7.5°	315.1	309.3	315.1	318.0	321.6	332.5	339.1	342.0	347.8	355.8	360.1
10°	303.5	307.9	307.9	317.3	322.4	328.9	340.5	342.7	355.8	363.8	368.1
12.5°	302.8	302.8	306.4	312.9	323.1	335.4	350.0	345.6	359.4	373.9	381.2
15°	304.9	310.0	310.0	318.7	326.7	344.2	356.5	357.2	376.8	391.4	397.9
17.5°	314.4	312.2	315.1	320.2	332.5	349.2	369.6	371.7	394.3	413.9	423.3
20°	334.0	337.6	333.3	330.4	335.4	357.2	383.4	387.7	413.1	432.0	441.4
22.5°	407.3	404.4	387.0	366.7	358.0	368.1	396.4	406.6	436.4	458.9	466.9
25°	490.1	485.0	464.7	434.2	394.3	389.9	422.6	422.6	465.4	490.1	487.9
27.5°	568.5	567.1	543.1	511.2	454.5	423.3	443.6	451.6	498.1	518.4	509.0
30°	648.4	649.8	628.0	589.6	530.0	477.0	473.4	479.9	522.8	554.7	535.1
32.5°	741.3	728.2	713.0	660.0	605.5	546.0	511.9	509.0	550.4	579.4	553.3
35°	824.1	816.1	799.4	751.5	689.0	617.9	570.0	562.7	585.2	623.7	595.4
37.5°	896.7	888.7	866.9	835.0	786.3	707.2	639.7	628.8	638.2	678.9	644.7
40°	959.1	961.3	955.5	924.3	879.3	807.4	729.7	712.3	704.3	740.6	702.1
42.5°	1004.2	1025.2	1026.7	988.2	951.9	912.7	825.5	811.7	792.9	823.4	796.5
45°	1098.5	1086.9	1094.2	1080.4	1040.5	1034.6	935.9	927.9	901.8	911.9	883.6
47.5°	1172.6	1170.4	1184.2	1161.7	1150.8	1151.5	1061.5	1047.7	1010.7	1029.6	997.6
50°	1215.4	1203.8	1253.9	1271.3	1269.2	1277.9	1188.6	1177.0	1141.4	1169.0	1100.7
52.5°	1225.6	1246.7	1293.9	1357.0	1383.9	1402.0	1327.3	1322.9	1284.4	1301.8	1207.5
55°	1251.0	1271.3	1298.9	1402.8	1502.2	1506.6	1463.8	1468.1	1434.0	1429.6	1309.1
57.5°	1250.3	1245.9	1322.2	1442.7	1580.7	1643.1	1619.9	1598.8	1561.8	1518.9	1374.4
60°	1204.5	1202.4	1281.5	1447.8	1623.5	1766.5	1776.0	1751.3	1658.3	1595.2	1451.4
62.5°	1113.8	1122.5	1202.4	1404.2	1664.1	1810.8	1845.7	1829.0	1713.5	1646.0	1542.2
65°	1010.0	991.8	1084.7	1295.3	1572.7	1797.7	1873.3	1867.4	1778.9	1701.2	1625.7
67.5°	810.3	818.3	889.4	1114.5	1416.6	1749.8	1937.9	1946.6	1831.1	1749.8	1651.1
70°	513.3	527.9	601.9	805.2	1156.6	1598.8	1996.0	2021.4	1872.5	1745.5	1577.0
72.5°	149.6	155.4	256.3	401.5	737.0	1282.2	1903.0	1916.1	1791.9	1584.3	1219.8
75°	49.4	52.3	75.5	130.7	289.0	662.9	1405.7	1467.4	1426.0	1148.6	697.8
77.5°	32.7	34.1	41.4	62.4	109.6	207.7	753.7	819.7	803.8	538.0	225.1
80°	24.0	24.7	30.5	42.1	66.8	74.8	278.1	321.6	310.8	123.4	45.0
82.5°	15.2	15.2	22.5	29.8	42.1	37.0	80.6	89.3	87.1	47.2	17.4
85°	10.2	10.9	16.7	23.2	23.2	17.4	23.2	26.9	29.0	25.4	8.0
87.5°	2.9	3.6	9.4	16.0	9.4	8.7	8.0	8.7	10.2	13.8	4.4
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°	350.7	350.7	350.7	350.7	350.7	350.7	350.7	350.7	350.7	350.7	350.7
2.5°	350.7	353.6	352.9	354.3	352.1	350.0	352.1	352.1	352.1	350.0	348.5
5°	353.6	352.1	353.6	350.7	353.6	350.7	349.2	344.9	344.2	344.2	347.1
7.5°	358.0	359.4	352.9	352.9	346.3	347.8	344.2	344.9	343.4	341.3	339.8
10°	364.5	370.3	363.8	361.6	354.3	348.5	339.8	335.4	335.4	332.5	335.4
12.5°	382.6	380.5	376.8	369.6	360.9	349.2	328.2	307.1	289.7	276.6	283.2
15°	397.2	396.4	391.4	377.6	365.9	330.4	277.4	222.9	193.9	180.8	178.6
17.5°	419.7	417.5	408.8	390.6	352.1	273.7	190.2	144.5	116.2	109.6	107.5
20°	440.7	440.0	421.1	397.9	317.3	199.7	124.2	95.1	87.1	87.9	86.4
22.5°	463.2	459.6	437.1	389.2	252.7	132.9	88.6	85.0	82.0	81.3	82.8
25°	488.6	475.6	453.1	369.6	185.9	91.5	83.5	80.6	77.7	77.0	77.0
27.5°	498.8	490.1	460.3	322.4	117.6	79.9	78.4	74.8	71.2	69.0	68.3
30°	522.0	507.5	467.6	253.4	83.5	73.3	71.2	66.8	61.7	58.1	58.1
32.5°	545.3	527.9	468.3	177.2	69.7	66.1	62.4	56.6	50.1	46.5	47.2
35°	574.3	550.4	460.3	114.7	62.4	58.1	50.8	44.3	38.5	35.6	35.6
37.5°	623.7	601.2	427.7	75.5	56.6	49.4	42.1	34.9	29.8	27.6	27.6
40°	686.1	657.1	382.6	59.5	50.1	42.1	33.4	26.9	24.0	21.8	21.8
42.5°	760.9	724.6	315.8	53.0	44.3	34.9	26.1	21.1	18.2	18.2	17.4
45°	835.7	776.2	247.6	48.6	39.2	29.0	20.3	16.7	15.2	14.5	14.5
47.5°	942.4	838.6	177.2	44.3	34.1	22.5	16.7	13.8	12.3	11.6	12.3
50°	1044.8	897.4	125.6	39.9	28.3	18.2	13.8	12.3	10.9	10.2	10.2
52.5°	1134.8	938.1	87.9	34.9	24.0	15.2	12.3	10.9	10.2	9.4	9.4
55°	1184.2	924.3	60.3	29.8	19.6	13.1	10.9	9.4	8.7	8.0	8.0
57.5°	1235.0	885.8	45.7	24.7	16.0	12.3	10.2	8.7	8.0	7.3	7.3
60°	1277.9	857.5	35.6	19.6	13.1	10.2	8.7	7.3	6.5	5.8	5.1
62.5°	1280.1	800.9	26.1	14.5	10.2	8.7	7.3	5.8	3.6	2.9	2.2
65°	1288.8	741.3	18.9	10.9	7.3	6.5	5.1	2.9	1.5	0.0	0.0
67.5°	1258.3	670.9	15.2	8.0	5.1	3.6	2.2	0.7	0.0	0.0	0.0
70°	1134.1	566.3	11.6	5.8	3.6	2.2	0.7	0.0	0.0	0.0	0.0
72.5°	811.7	368.1	8.0	4.4	1.5	0.7	0.0	0.0	0.0	0.0	0.0
75°	432.7	156.8	5.8	2.9	0.7	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	135.8	39.9	3.6	1.5	0.7	0.0	0.0	0.0	0.0	0.0	0.0
80°	29.8	10.9	2.2	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	10.2	4.4	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	3.6	1.5	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.5	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)