

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: P676498

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

Issue Date: 04/25/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P676498  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 04/25/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCW-SA-1D-850-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) 5000K CCT, 80 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

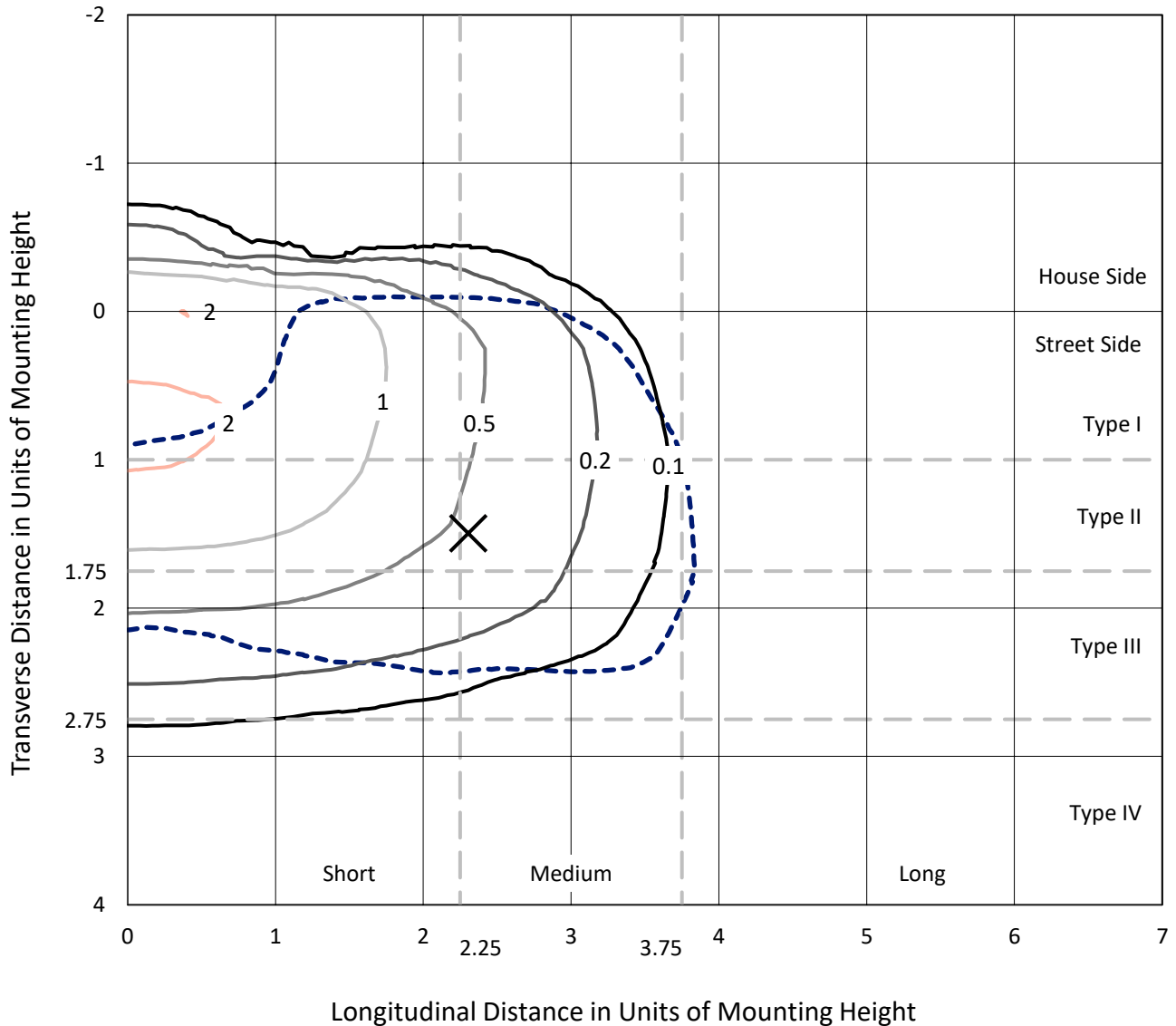
Lumens per Lamp: N/A  
Luminaire Lumens: 3505.8 lumens  
Efficiency: N/A  
Efficacy: 79.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B1 - U0 - G1

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

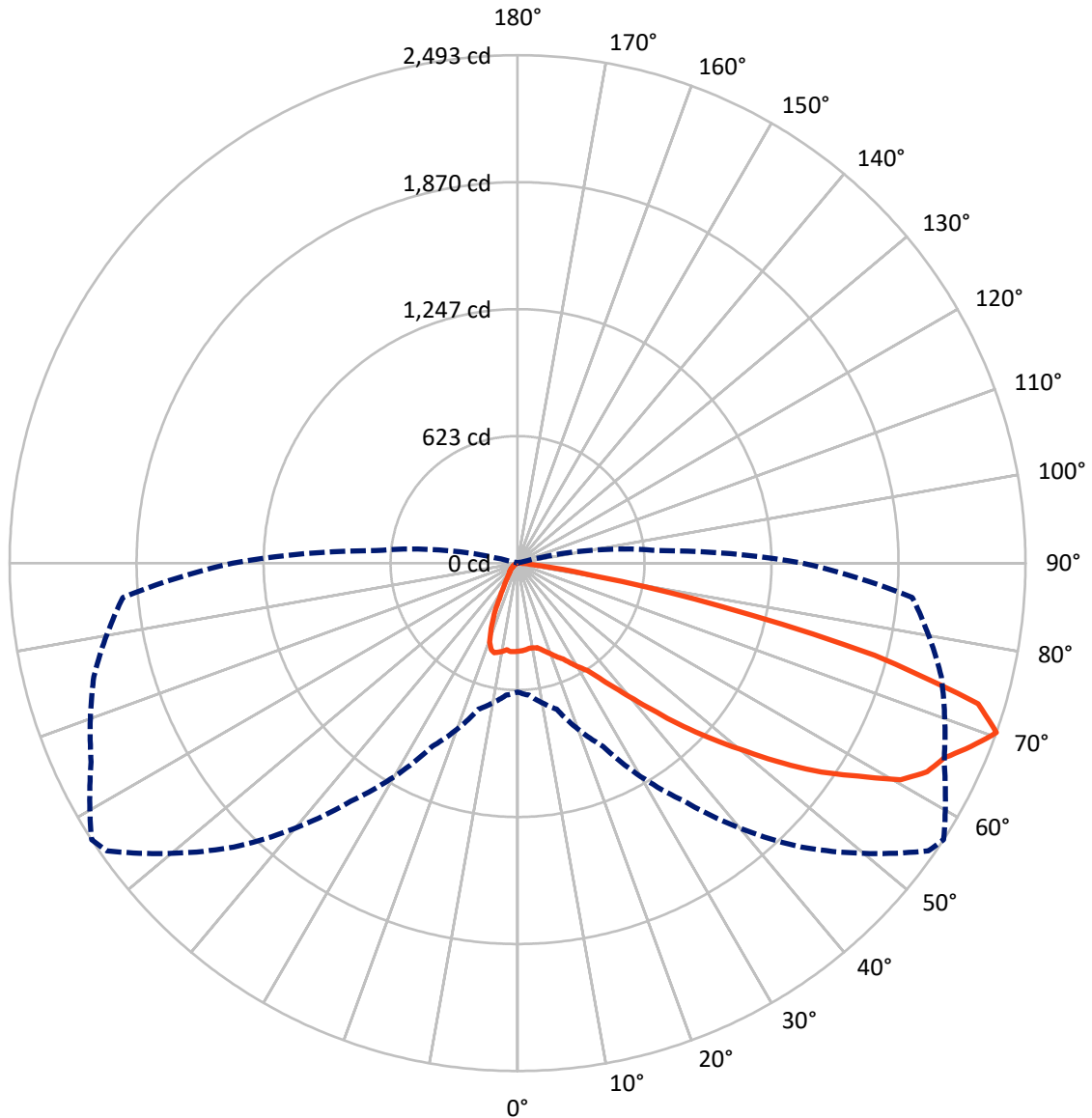
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 2.5 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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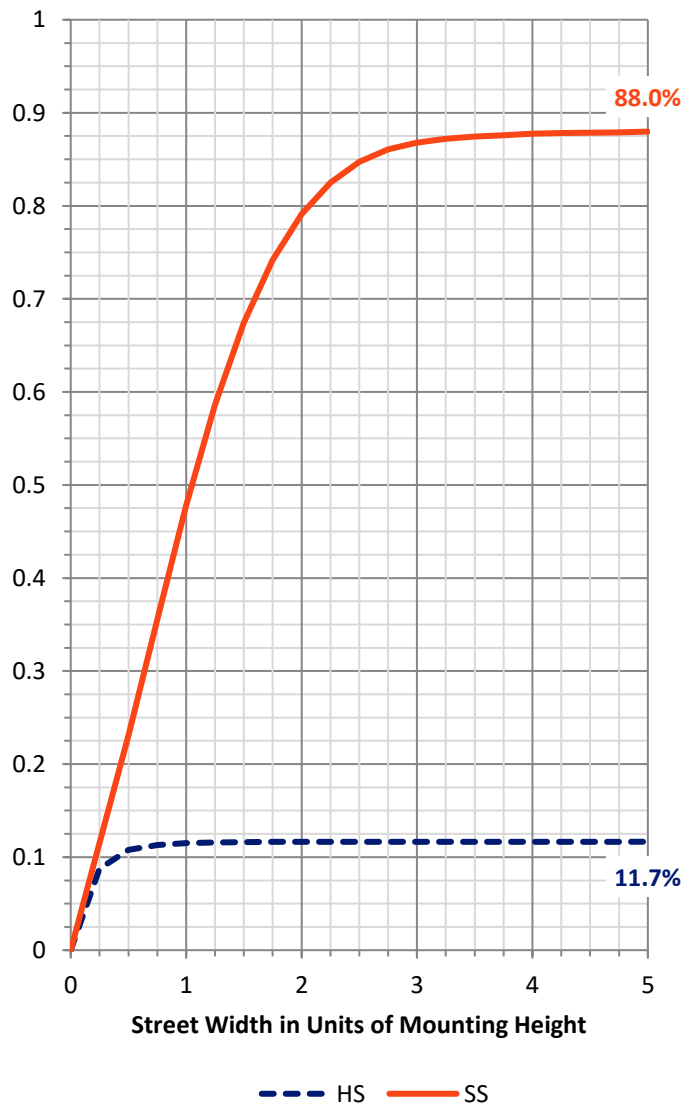
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	413.2	0.0	413.2
	% Fixture	11.8	0.0	11.8
<b>Street Side</b>	Lumens	3092.6	0.0	3092.6
	% Fixture	88.2	0.0	88.2
<b>Total</b>	Lumens	3505.8	0.0	3505.8
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	40.4	1.2
10°-20°	113.0	3.2
20°-30°	190.4	5.4
30°-40°	325.8	9.3
40°-50°	547.1	15.6
50°-60°	839.8	24.0
60°-70°	969.6	27.7
70°-80°	458.0	13.1
80°-90°	21.7	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°	3505.8	100.0
0°-180°	3505.8	100.0

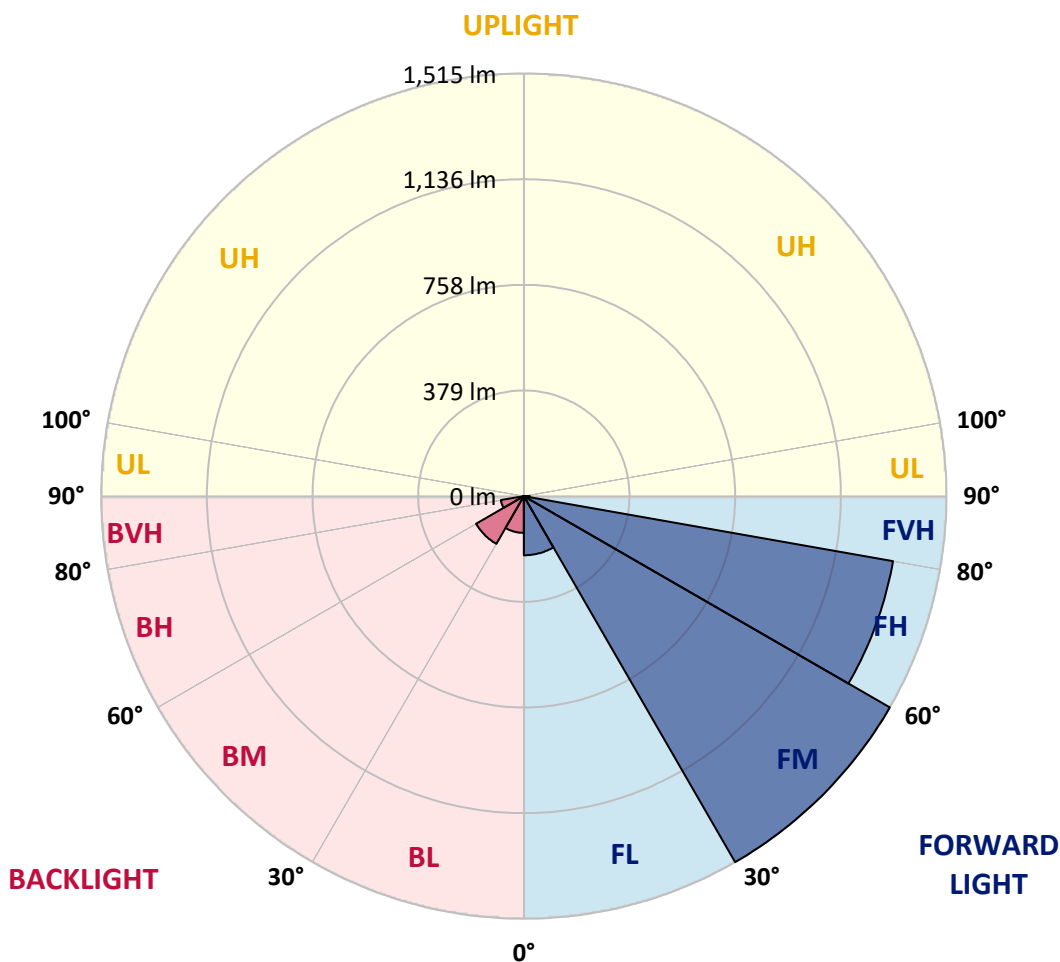


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	212.1	6.0			
FM (30°-60°)	1515.2	43.2			
FH (60°-80°)	1344.0	38.3			G1/1800
FVH (80°-90°)	21.3	0.6			G1/100
BL (0°-30°)	131.7	3.8	B1/500		
BM (30°-60°)	197.5	5.6	B0/220		
BH (60°-80°)	83.6	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°	432.6	432.6	432.6	432.6	432.6	432.6	432.6	432.6	432.6	432.6	432.6
2.5°	426.3	423.6	426.3	429.9	426.3	429.0	428.1	430.8	427.2	427.2	429.9
5°	398.5	403.0	404.8	409.3	413.8	421.8	427.2	427.2	432.6	435.3	438.8
7.5°	388.7	381.5	388.7	392.3	396.7	410.2	418.2	421.8	429.0	438.8	444.2
10°	374.4	379.7	379.7	391.4	397.6	405.7	420.0	422.7	438.8	448.7	454.1
12.5°	373.5	373.5	377.9	386.0	398.5	413.8	431.7	426.3	443.3	461.2	470.2
15°	376.1	382.4	382.4	393.2	403.0	424.5	439.7	440.6	464.8	482.7	490.8
17.5°	387.8	385.1	388.7	395.0	410.2	430.8	455.9	458.5	486.3	510.5	522.1
20°	412.0	416.5	411.1	407.5	413.8	440.6	472.9	478.2	509.6	532.9	544.5
22.5°	502.4	498.8	477.4	452.3	441.5	454.1	489.0	501.5	538.3	566.0	575.9
25°	604.5	598.3	573.2	535.6	486.3	480.9	521.2	521.2	574.1	604.5	601.8
27.5°	701.2	699.5	669.9	630.5	560.6	522.1	547.2	557.1	614.4	639.5	627.8
30°	799.8	801.6	774.7	727.2	653.8	588.4	583.9	592.0	644.8	684.2	660.1
32.5°	914.4	898.3	879.5	814.1	746.9	673.5	631.4	627.8	678.9	714.7	682.4
35°	1016.5	1006.6	986.0	926.9	849.9	762.1	703.0	694.1	721.8	769.3	734.4
37.5°	1106.1	1096.2	1069.3	1029.9	969.9	872.3	789.0	775.6	787.2	837.4	795.3
40°	1183.1	1185.8	1178.6	1140.1	1084.6	995.9	900.1	878.6	868.7	913.5	866.0
42.5°	1238.6	1264.6	1266.4	1218.9	1174.1	1125.8	1018.3	1001.3	978.0	1015.6	982.5
45°	1355.0	1340.7	1349.7	1332.6	1283.4	1276.2	1154.4	1144.6	1112.3	1124.9	1089.9
47.5°	1446.4	1443.7	1460.7	1432.9	1419.5	1420.4	1309.4	1292.3	1246.7	1269.9	1230.5
50°	1499.2	1484.9	1546.7	1568.2	1565.5	1576.2	1466.1	1451.8	1407.9	1441.9	1357.7
52.5°	1511.8	1537.7	1595.9	1673.9	1707.0	1729.4	1637.1	1631.8	1584.3	1605.8	1489.4
55°	1543.1	1568.2	1602.2	1730.3	1853.0	1858.4	1805.5	1810.9	1768.8	1763.4	1614.8
57.5°	1542.2	1536.8	1630.9	1779.5	1949.7	2026.7	1998.1	1972.1	1926.4	1873.6	1695.4
60°	1485.8	1483.1	1580.7	1785.8	2002.5	2179.0	2190.6	2160.2	2045.5	1967.6	1790.3
62.5°	1373.8	1384.6	1483.1	1732.1	2052.7	2233.6	2276.6	2256.0	2113.6	2030.3	1902.2
65°	1245.8	1223.4	1338.0	1597.7	1939.9	2217.5	2310.6	2303.5	2194.2	2098.4	2005.2
67.5°	999.5	1009.3	1097.1	1374.7	1747.3	2158.4	2390.3	2401.1	2258.7	2158.4	2036.6
70°	633.2	651.1	742.4	993.2	1426.7	1972.1	2462.0	2493.3	2309.7	2153.0	1945.2
72.5°	184.5	191.7	316.1	495.3	909.0	1581.6	2347.3	2363.5	2210.3	1954.2	1504.6
75°	60.9	64.5	93.1	161.2	356.4	817.7	1733.9	1810.0	1758.9	1416.8	860.7
77.5°	40.3	42.1	51.0	77.0	135.2	256.1	929.6	1011.1	991.4	663.6	277.6
80°	29.6	30.5	37.6	51.9	82.4	92.2	343.0	396.7	383.3	152.3	55.5
82.5°	18.8	18.8	27.8	36.7	51.9	45.7	99.4	110.2	107.5	58.2	21.5
85°	12.5	13.4	20.6	28.7	28.7	21.5	28.7	33.1	35.8	31.3	9.9
87.5°	3.6	4.5	11.6	19.7	11.6	10.7	9.9	10.7	12.5	17.0	5.4
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°	432.6	432.6	432.6	432.6	432.6	432.6	432.6	432.6	432.6	432.6	432.6
2.5°	432.6	436.2	435.3	437.0	434.4	431.7	434.4	434.4	434.4	431.7	429.9
5°	436.2	434.4	436.2	432.6	436.2	432.6	430.8	425.4	424.5	424.5	428.1
7.5°	441.5	443.3	435.3	435.3	427.2	429.0	424.5	425.4	423.6	420.9	419.1
10°	449.6	456.8	448.7	446.0	437.0	429.9	419.1	413.8	413.8	410.2	413.8
12.5°	472.0	469.3	464.8	455.9	445.1	430.8	404.8	378.8	357.3	341.2	349.3
15°	489.9	489.0	482.7	465.7	451.4	407.5	342.1	274.9	239.1	223.0	220.3
17.5°	517.7	515.0	504.2	481.8	434.4	337.6	234.6	178.2	143.3	135.2	132.5
20°	543.6	542.7	519.4	490.8	391.4	246.3	153.1	117.3	107.5	108.4	106.6
22.5°	571.4	566.9	539.1	480.0	311.7	163.9	109.3	104.8	101.2	100.3	102.1
25°	602.7	586.6	558.8	455.9	229.3	112.8	103.0	99.4	95.8	94.9	94.9
27.5°	615.3	604.5	567.8	397.6	145.1	98.5	96.7	92.2	87.8	85.1	84.2
30°	643.9	626.0	576.8	312.6	103.0	90.5	87.8	82.4	76.1	71.6	71.6
32.5°	672.6	651.1	577.7	218.5	86.0	81.5	77.0	69.9	61.8	57.3	58.2
35°	708.4	678.9	567.8	141.5	77.0	71.6	62.7	54.6	47.5	43.9	43.9
37.5°	769.3	741.6	527.5	93.1	69.9	60.9	51.9	43.0	36.7	34.0	34.0
40°	846.3	810.5	472.0	73.4	61.8	51.9	41.2	33.1	29.6	26.9	26.9
42.5°	938.6	893.8	389.6	65.4	54.6	43.0	32.2	26.0	22.4	22.4	21.5
45°	1030.8	957.4	305.4	60.0	48.4	35.8	25.1	20.6	18.8	17.9	17.9
47.5°	1162.5	1034.4	218.5	54.6	42.1	27.8	20.6	17.0	15.2	14.3	15.2
50°	1288.8	1107.0	154.9	49.3	34.9	22.4	17.0	15.2	13.4	12.5	12.5
52.5°	1399.8	1157.1	108.4	43.0	29.6	18.8	15.2	13.4	12.5	11.6	11.6
55°	1460.7	1140.1	74.3	36.7	24.2	16.1	13.4	11.6	10.7	9.9	9.9
57.5°	1523.4	1092.6	56.4	30.5	19.7	15.2	12.5	10.7	9.9	9.0	9.0
60°	1576.2	1057.7	43.9	24.2	16.1	12.5	10.7	9.0	8.1	7.2	6.3
62.5°	1578.9	987.8	32.2	17.9	12.5	10.7	9.0	7.2	4.5	3.6	2.7
65°	1589.7	914.4	23.3	13.4	9.0	8.1	6.3	3.6	1.8	0.0	0.0
67.5°	1552.1	827.5	18.8	9.9	6.3	4.5	2.7	0.9	0.0	0.0	0.0
70°	1398.9	698.6	14.3	7.2	4.5	2.7	0.9	0.0	0.0	0.0	0.0
72.5°	1001.3	454.1	9.9	5.4	1.8	0.9	0.0	0.0	0.0	0.0	0.0
75°	533.8	193.4	7.2	3.6	0.9	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	167.5	49.3	4.5	1.8	0.9	0.0	0.0	0.0	0.0	0.0	0.0
80°	36.7	13.4	2.7	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	12.5	5.4	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	4.5	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)