

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: P676467

Luminaire Tested: **CCW-SA-1F-830-U-T3-HSS**

Issue Date: 04/25/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P676467  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 04/25/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCW-SA-1F-830-U-T3-HSS  
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @1200mA w/  
T3 distribution lens and House Side Shield  
Light Source: (16) 3000K CCT, 80 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

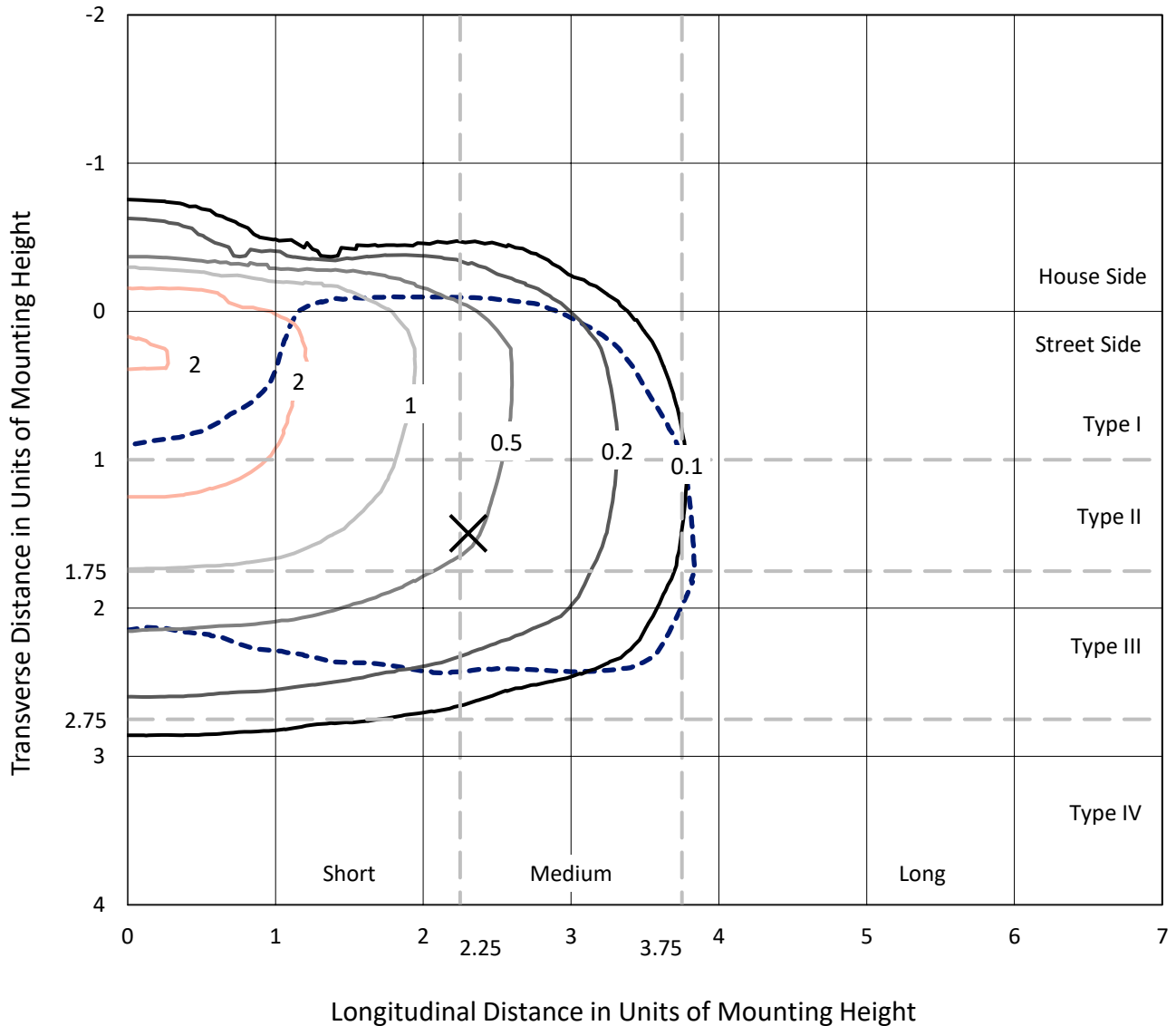
Lumens per Lamp: N/A  
Luminaire Lumens: 4292 lumens  
Efficiency: N/A  
Efficacy: 64.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B1 - U0 - G1

Input Watts (W): 67  
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

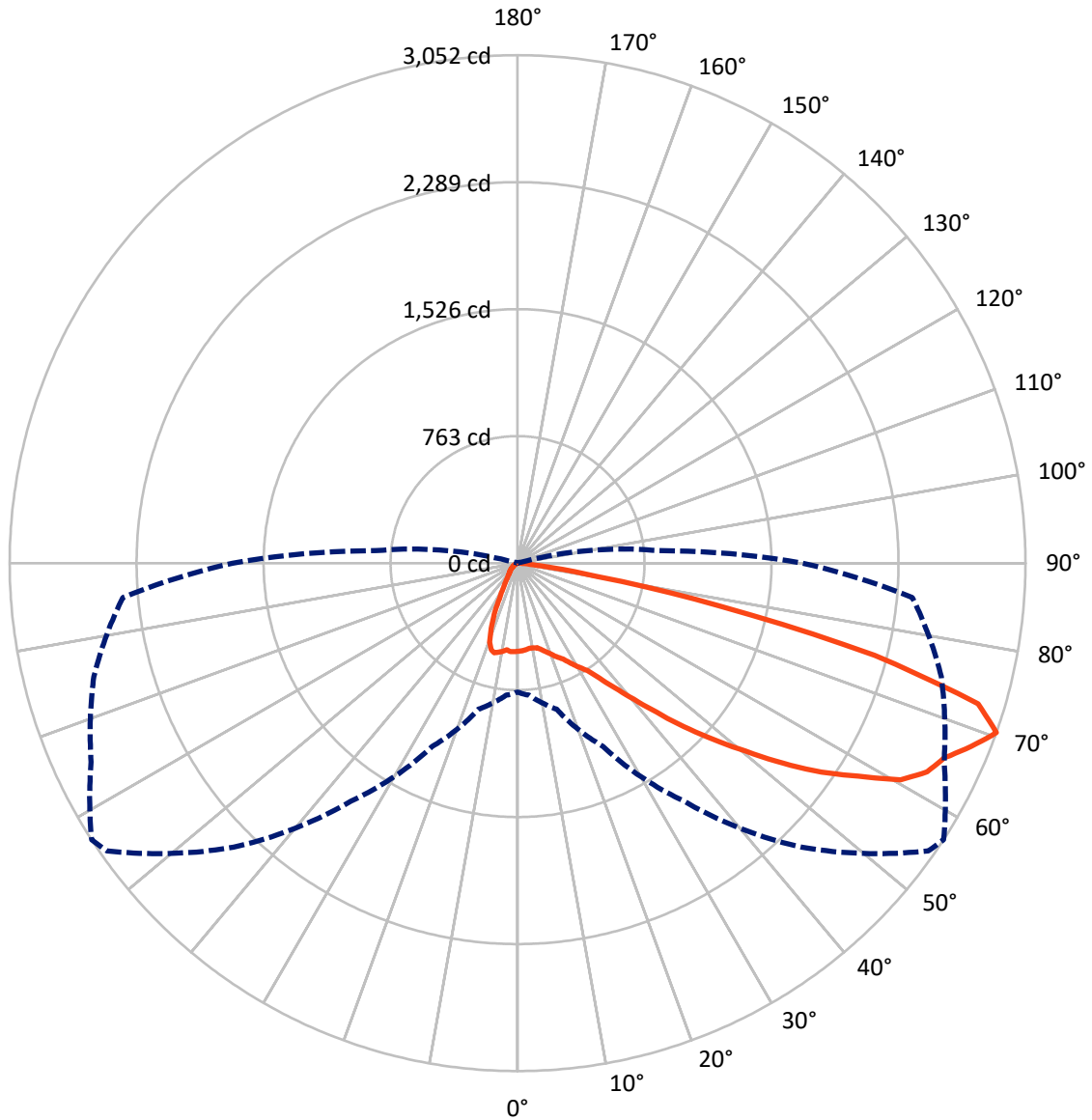
✕ Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 3 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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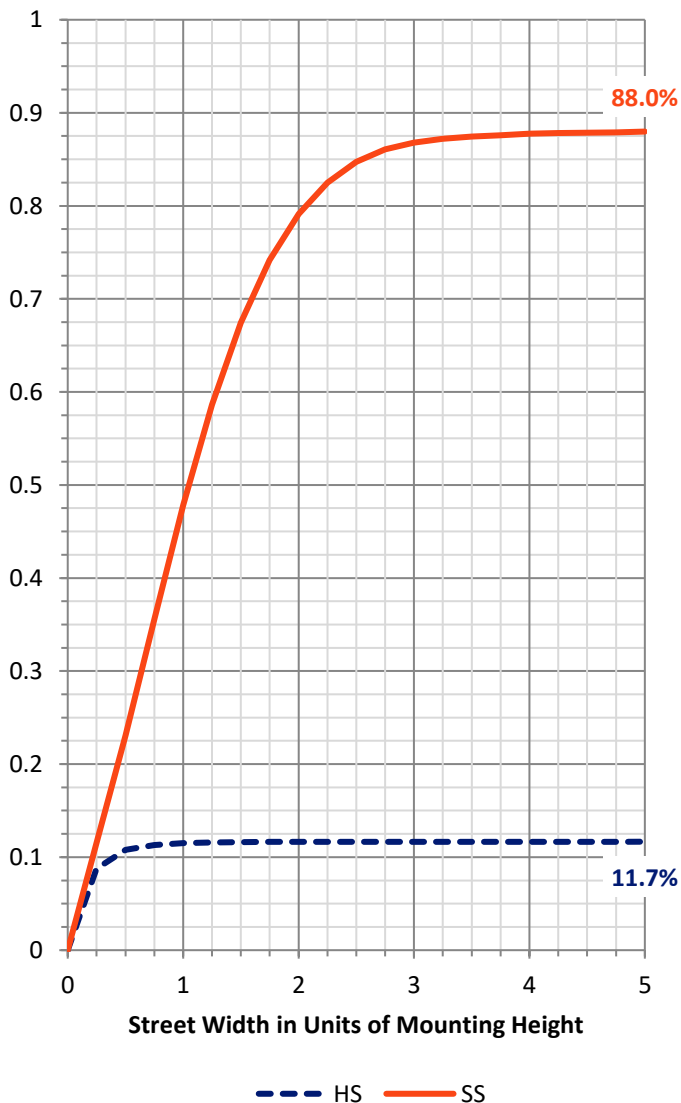
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	505.9	0.0	505.9
	% Fixture	11.8	0.0	11.8
<b>Street Side</b>	Lumens	3786.1	0.0	3786.1
	% Fixture	88.2	0.0	88.2
<b>Total</b>	Lumens	4292.0	0.0	4292.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	49.5	1.2
10°-20°	138.4	3.2
20°-30°	233.1	5.4
30°-40°	398.9	9.3
40°-50°	669.8	15.6
50°-60°	1028.1	24.0
60°-70°	1187.0	27.7
70°-80°	560.7	13.1
80°-90°	26.6	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°	4292.0	100.0
0°-180°	4292.0	100.0

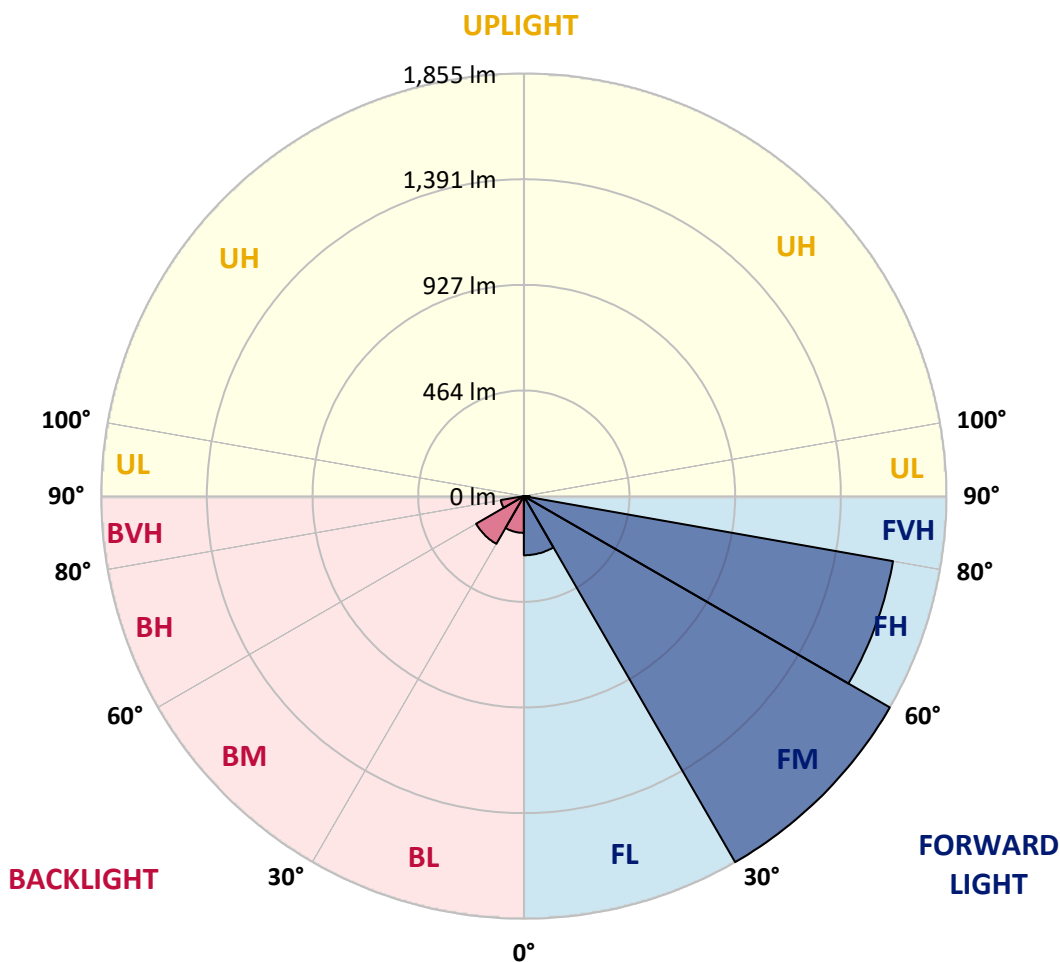


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	259.7	6.0			
FM (30°-60°)	1854.9	43.2			
FH (60°-80°)	1645.4	38.3			G1/1800
FVH (80°-90°)	26.1	0.6			G1/100
BL (0°-30°)	161.3	3.8	B1/500		
BM (30°-60°)	241.8	5.6	B1/1000		
BH (60°-80°)	102.3	2.4	B0/110		G0/110
BVH (80°-90°)	0.5	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°	529.6	529.6	529.6	529.6	529.6	529.6	529.6	529.6	529.6	529.6	529.6
2.5°	521.9	518.6	521.9	526.3	521.9	525.2	524.1	527.4	523.0	523.0	526.3
5°	487.9	493.4	495.6	501.1	506.5	516.4	523.0	523.0	529.6	532.9	537.2
7.5°	475.8	467.1	475.8	480.2	485.7	502.2	512.0	516.4	525.2	537.2	543.8
10°	458.3	464.9	464.9	479.1	486.8	496.7	514.2	517.5	537.2	549.3	555.9
12.5°	457.2	457.2	462.7	472.6	487.9	506.5	528.5	521.9	542.7	564.7	575.6
15°	460.5	468.2	468.2	481.3	493.4	519.7	538.3	539.4	569.0	591.0	600.8
17.5°	474.8	471.5	475.8	483.5	502.2	527.4	558.1	561.4	595.4	625.0	639.2
20°	504.4	509.8	503.3	498.9	506.5	539.4	578.9	585.5	623.9	652.4	666.6
22.5°	615.1	610.7	584.4	553.7	540.5	555.9	598.6	614.0	658.9	692.9	705.0
25°	740.1	732.4	701.7	655.7	595.4	588.8	638.1	638.1	702.8	740.1	736.8
27.5°	858.5	856.3	820.1	771.9	686.4	639.2	669.9	682.0	752.1	782.8	768.6
30°	979.1	981.3	948.4	890.3	800.4	720.3	714.9	724.7	789.4	837.7	808.1
32.5°	1119.4	1099.7	1076.7	996.6	914.4	824.5	773.0	768.6	831.1	874.9	835.5
35°	1244.4	1232.4	1207.2	1134.8	1040.5	933.1	860.7	849.7	883.7	941.8	899.1
37.5°	1354.1	1342.0	1309.1	1260.9	1187.4	1067.9	965.9	949.5	963.8	1025.2	973.6
40°	1448.4	1451.7	1442.9	1395.7	1327.8	1219.2	1101.9	1075.6	1063.5	1118.4	1060.2
42.5°	1516.4	1548.1	1550.3	1492.2	1437.4	1378.2	1246.6	1225.8	1197.3	1243.3	1202.8
45°	1658.9	1641.3	1652.3	1631.5	1571.2	1562.4	1413.3	1401.2	1361.8	1377.1	1334.3
47.5°	1770.7	1767.4	1788.3	1754.3	1737.8	1738.9	1603.0	1582.1	1526.2	1554.7	1506.5
50°	1835.4	1817.9	1893.5	1919.8	1916.5	1929.7	1794.8	1777.3	1723.6	1765.2	1662.2
52.5°	1850.8	1882.6	1953.8	2049.2	2089.8	2117.2	2004.3	1997.7	1939.6	1965.9	1823.4
55°	1889.1	1919.8	1961.5	2118.3	2268.5	2275.1	2210.4	2217.0	2165.4	2158.9	1976.8
57.5°	1888.0	1881.5	1996.6	2178.6	2386.9	2481.2	2446.1	2414.3	2358.4	2293.7	2075.5
60°	1819.0	1815.7	1935.2	2186.3	2451.6	2667.6	2681.8	2644.6	2504.2	2408.8	2191.7
62.5°	1681.9	1695.1	1815.7	2120.5	2513.0	2734.5	2787.1	2761.9	2587.6	2485.6	2328.8
65°	1525.1	1497.7	1638.1	1956.0	2374.9	2714.7	2828.8	2820.0	2686.2	2568.9	2454.9
67.5°	1223.6	1235.7	1343.1	1683.0	2139.1	2642.4	2926.4	2939.5	2765.2	2642.4	2493.3
70°	775.2	797.1	908.9	1215.9	1746.6	2414.3	3014.1	3052.4	2827.7	2635.8	2381.4
72.5°	225.9	234.6	387.0	606.3	1112.9	1936.3	2873.7	2893.5	2706.0	2392.4	1842.0
75°	74.6	78.9	114.0	197.4	436.4	1001.0	2122.7	2215.9	2153.4	1734.5	1053.7
77.5°	49.3	51.5	62.5	94.3	165.6	313.6	1138.1	1237.9	1213.7	812.4	339.9
80°	36.2	37.3	46.0	63.6	100.9	112.9	419.9	485.7	469.3	186.4	68.0
82.5°	23.0	23.0	34.0	45.0	63.6	55.9	121.7	134.9	131.6	71.3	26.3
85°	15.3	16.4	25.2	35.1	35.1	26.3	35.1	40.6	43.9	38.4	12.1
87.5°	4.4	5.5	14.3	24.1	14.3	13.2	12.1	13.2	15.3	20.8	6.6
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°	529.6	529.6	529.6	529.6	529.6	529.6	529.6	529.6	529.6	529.6	529.6
2.5°	529.6	534.0	532.9	535.1	531.8	528.5	531.8	531.8	531.8	528.5	526.3
5°	534.0	531.8	534.0	529.6	534.0	529.6	527.4	520.8	519.7	519.7	524.1
7.5°	540.5	542.7	532.9	532.9	523.0	525.2	519.7	520.8	518.6	515.3	513.1
10°	550.4	559.2	549.3	546.0	535.1	526.3	513.1	506.5	506.5	502.2	506.5
12.5°	577.8	574.5	569.0	558.1	544.9	527.4	495.6	463.8	437.5	417.7	427.6
15°	599.7	598.6	591.0	570.1	552.6	498.9	418.8	336.6	292.7	273.0	269.7
17.5°	633.7	630.4	617.3	589.9	531.8	413.4	287.3	218.2	175.4	165.6	162.3
20°	665.5	664.4	635.9	600.8	479.1	301.5	187.5	143.6	131.6	132.7	130.5
22.5°	699.5	694.0	660.0	587.7	381.6	200.6	133.8	128.3	123.9	122.8	125.0
25°	737.9	718.2	684.2	558.1	280.7	138.1	126.1	121.7	117.3	116.2	116.2
27.5°	753.2	740.1	695.1	486.8	177.6	120.6	118.4	112.9	107.4	104.2	103.1
30°	788.3	766.4	706.1	382.7	126.1	110.7	107.4	100.9	93.2	87.7	87.7
32.5°	823.4	797.1	707.2	267.5	105.3	99.8	94.3	85.5	75.7	70.2	71.3
35°	867.3	831.1	695.1	173.2	94.3	87.7	76.7	66.9	58.1	53.7	53.7
37.5°	941.8	907.8	645.8	114.0	85.5	74.6	63.6	52.6	45.0	41.7	41.7
40°	1036.1	992.3	577.8	89.9	75.7	63.6	50.4	40.6	36.2	32.9	32.9
42.5°	1149.1	1094.2	476.9	80.0	66.9	52.6	39.5	31.8	27.4	27.4	26.3
45°	1262.0	1172.1	373.9	73.5	59.2	43.9	30.7	25.2	23.0	21.9	21.9
47.5°	1423.2	1266.4	267.5	66.9	51.5	34.0	25.2	20.8	18.6	17.5	18.6
50°	1577.8	1355.2	189.7	60.3	42.8	27.4	20.8	18.6	16.4	15.3	15.3
52.5°	1713.7	1416.6	132.7	52.6	36.2	23.0	18.6	16.4	15.3	14.3	14.3
55°	1788.3	1395.7	91.0	45.0	29.6	19.7	16.4	14.3	13.2	12.1	12.1
57.5°	1865.0	1337.6	69.1	37.3	24.1	18.6	15.3	13.2	12.1	11.0	11.0
60°	1929.7	1294.9	53.7	29.6	19.7	15.3	13.2	11.0	9.9	8.8	7.7
62.5°	1933.0	1209.4	39.5	21.9	15.3	13.2	11.0	8.8	5.5	4.4	3.3
65°	1946.1	1119.4	28.5	16.4	11.0	9.9	7.7	4.4	2.2	0.0	0.0
67.5°	1900.1	1013.1	23.0	12.1	7.7	5.5	3.3	1.1	0.0	0.0	0.0
70°	1712.6	855.2	17.5	8.8	5.5	3.3	1.1	0.0	0.0	0.0	0.0
72.5°	1225.8	555.9	12.1	6.6	2.2	1.1	0.0	0.0	0.0	0.0	0.0
75°	653.5	236.8	8.8	4.4	1.1	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	205.0	60.3	5.5	2.2	1.1	0.0	0.0	0.0	0.0	0.0	0.0
80°	45.0	16.4	3.3	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	15.3	6.6	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	5.5	2.2	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.2	1.1	1.1	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)