

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: P676502

Luminaire Tested: **CCW-SA-2B-850-U-T3-HSS**

Issue Date: 04/25/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P676502  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 04/25/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCW-SA-2B-850-U-T3-HSS  
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @450mA w/  
T3 distribution lens and House Side Shield  
Light Source: (32) 5000K CCT, 80 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

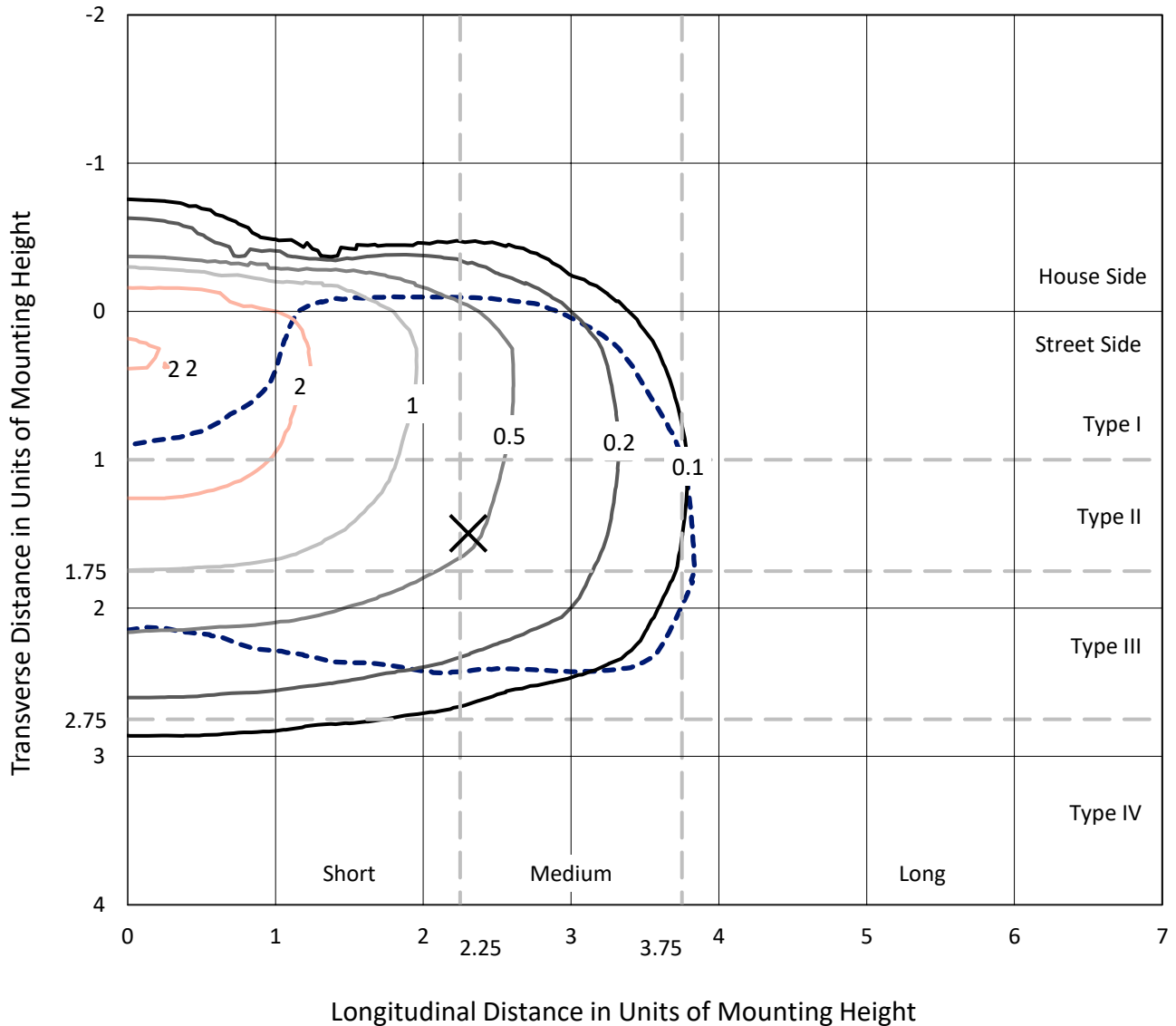
Lumens per Lamp: N/A  
Luminaire Lumens: 4341.4 lumens  
Efficiency: N/A  
Efficacy: 94.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B1 - U0 - G1

Input Watts (W): 46  
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

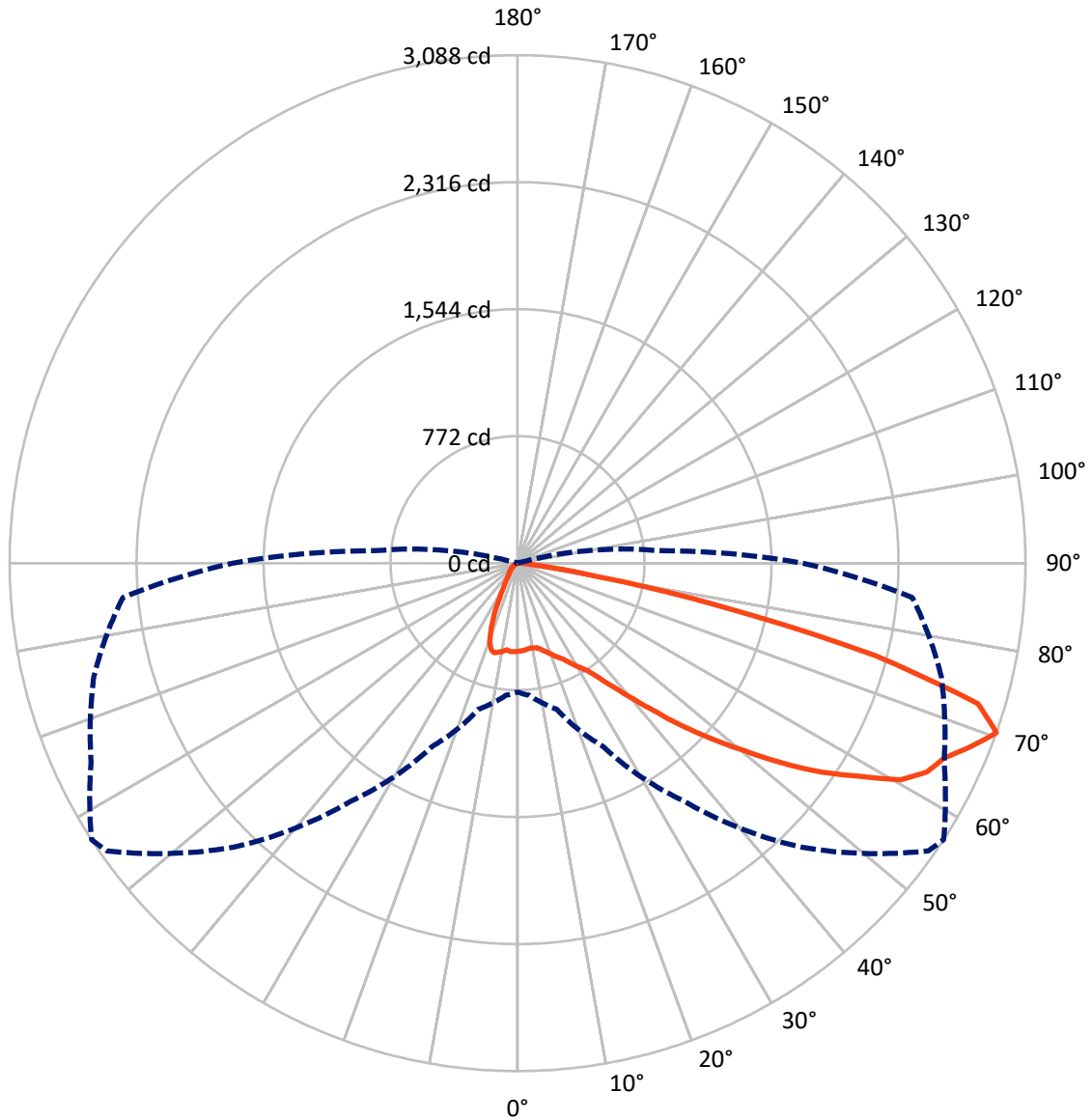
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 3.1 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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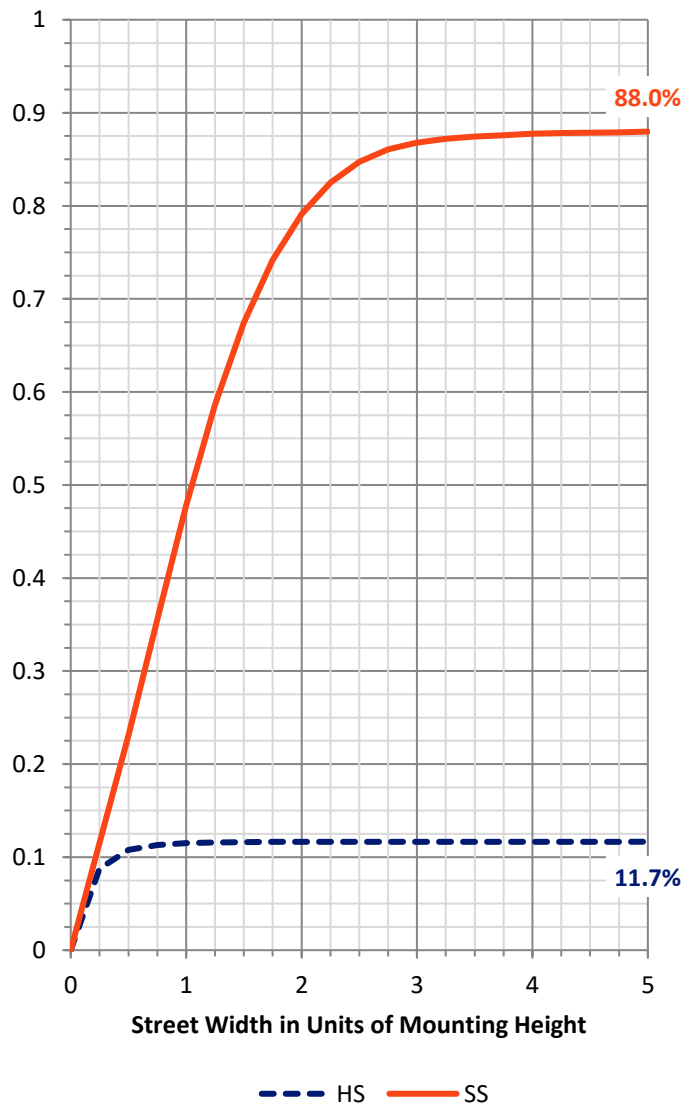
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	511.7	0.0	511.7
	% Fixture	11.8	0.0	11.8
<b>Street Side</b>	Lumens	3829.7	0.0	3829.7
	% Fixture	88.2	0.0	88.2
<b>Total</b>	Lumens	4341.4	0.0	4341.4
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	50.1	1.2
10°-20°	140.0	3.2
20°-30°	235.8	5.4
30°-40°	403.5	9.3
40°-50°	677.5	15.6
50°-60°	1039.9	24.0
60°-70°	1200.7	27.7
70°-80°	567.2	13.1
80°-90°	26.9	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°	4341.4	100.0
0°-180°	4341.4	100.0



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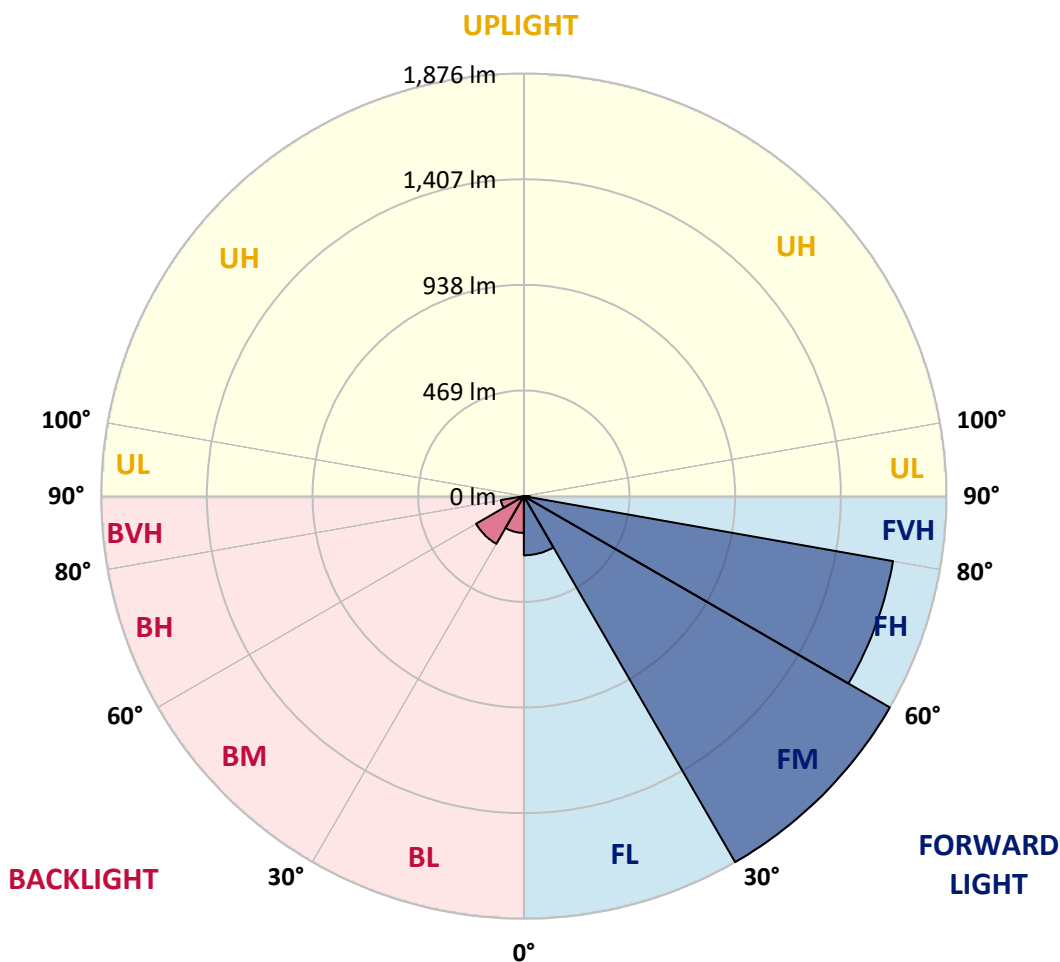
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	262.6	6.0			
FM (30°-60°)	1876.3	43.2			
FH (60°-80°)	1664.3	38.3			G1/1800
FVH (80°-90°)	26.4	0.6			G1/100
BL (0°-30°)	163.1	3.8	B1/500		
BM (30°-60°)	244.6	5.6	B1/1000		
BH (60°-80°)	103.5	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°	535.7	535.7	535.7	535.7	535.7	535.7	535.7	535.7	535.7	535.7	535.7
2.5°	527.9	524.6	527.9	532.4	527.9	531.2	530.1	533.5	529.0	529.0	532.4
5°	493.5	499.1	501.3	506.8	512.4	522.4	529.0	529.0	535.7	539.0	543.4
7.5°	481.3	472.5	481.3	485.8	491.3	508.0	517.9	522.4	531.2	543.4	550.1
10°	463.6	470.2	470.2	484.7	492.4	502.4	520.2	523.5	543.4	555.6	562.3
12.5°	462.5	462.5	468.0	478.0	493.5	512.4	534.6	527.9	549.0	571.2	582.3
15°	465.8	473.6	473.6	486.9	499.1	525.7	544.6	545.7	575.6	597.8	607.8
17.5°	480.2	476.9	481.3	489.1	508.0	533.5	564.5	567.8	602.2	632.2	646.6
20°	510.2	515.7	509.1	504.6	512.4	545.7	585.6	592.2	631.1	659.9	674.3
22.5°	622.2	617.7	591.1	560.1	546.8	562.3	605.5	621.1	666.5	700.9	713.1
25°	748.6	740.9	709.8	663.2	602.2	595.6	645.5	645.5	710.9	748.6	745.3
27.5°	868.4	866.2	829.6	780.8	694.3	646.6	677.6	689.8	760.8	791.9	777.5
30°	990.4	992.6	959.3	900.6	809.6	728.7	723.1	733.1	798.5	847.3	817.4
32.5°	1132.4	1112.4	1089.1	1008.1	925.0	834.0	781.9	777.5	840.7	885.0	845.1
35°	1258.8	1246.6	1221.1	1147.9	1052.5	943.8	870.6	859.5	893.9	952.7	909.4
37.5°	1369.7	1357.5	1324.2	1275.4	1201.1	1080.2	977.1	960.5	974.9	1037.0	984.9
40°	1465.1	1468.4	1459.5	1411.8	1343.1	1233.3	1114.6	1088.0	1075.8	1131.2	1072.5
42.5°	1533.8	1566.0	1568.2	1509.4	1454.0	1394.1	1261.0	1239.9	1211.1	1257.7	1216.6
45°	1678.0	1660.3	1671.4	1650.3	1589.3	1580.4	1429.6	1417.4	1377.5	1393.0	1349.7
47.5°	1791.1	1787.8	1808.9	1774.5	1757.9	1759.0	1621.5	1600.4	1543.8	1572.7	1523.9
50°	1856.6	1838.8	1915.4	1942.0	1938.6	1952.0	1815.5	1797.8	1743.5	1785.6	1681.3
52.5°	1872.1	1904.3	1976.4	2072.8	2113.9	2141.6	2027.4	2020.7	1961.9	1988.6	1844.4
55°	1910.9	1942.0	1984.1	2142.7	2294.7	2301.3	2235.9	2242.5	2190.4	2183.8	1999.6
57.5°	1909.8	1903.2	2019.6	2203.7	2414.4	2509.8	2474.3	2442.2	2385.6	2320.2	2099.5
60°	1839.9	1836.6	1957.5	2211.5	2479.9	2698.4	2712.8	2675.1	2533.1	2436.6	2217.0
62.5°	1701.3	1714.6	1836.6	2144.9	2542.0	2766.0	2819.2	2793.7	2617.4	2514.3	2355.7
65°	1542.7	1515.0	1656.9	1978.6	2402.2	2746.0	2861.4	2852.5	2717.2	2598.5	2483.2
67.5°	1237.7	1249.9	1358.6	1702.4	2163.8	2672.8	2960.1	2973.4	2797.1	2672.8	2522.0
70°	784.1	806.3	919.4	1230.0	1766.7	2442.2	3048.8	3087.6	2860.3	2666.2	2408.9
72.5°	228.5	237.3	391.5	613.3	1125.7	1958.6	2906.9	2926.8	2737.2	2420.0	1863.2
75°	75.4	79.9	115.3	199.6	441.4	1012.6	2147.2	2241.4	2178.2	1754.5	1065.8
77.5°	49.9	52.1	63.2	95.4	167.5	317.2	1151.2	1252.1	1227.7	821.8	343.8
80°	36.6	37.7	46.6	64.3	102.0	114.2	424.8	491.3	474.7	188.5	68.8
82.5°	23.3	23.3	34.4	45.5	64.3	56.6	123.1	136.4	133.1	72.1	26.6
85°	15.5	16.6	25.5	35.5	35.5	26.6	35.5	41.0	44.4	38.8	12.2
87.5°	4.4	5.5	14.4	24.4	14.4	13.3	12.2	13.3	15.5	21.1	6.7
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°	535.7	535.7	535.7	535.7	535.7	535.7	535.7	535.7	535.7	535.7	535.7
2.5°	535.7	540.1	539.0	541.2	537.9	534.6	537.9	537.9	537.9	534.6	532.4
5°	540.1	537.9	540.1	535.7	540.1	535.7	533.5	526.8	525.7	525.7	530.1
7.5°	546.8	549.0	539.0	539.0	529.0	531.2	525.7	526.8	524.6	521.3	519.0
10°	556.8	565.6	555.6	552.3	541.2	532.4	519.0	512.4	512.4	508.0	512.4
12.5°	584.5	581.2	575.6	564.5	551.2	533.5	501.3	469.1	442.5	422.6	432.5
15°	606.7	605.5	597.8	576.7	559.0	504.6	423.7	340.5	296.1	276.2	272.8
17.5°	641.0	637.7	624.4	596.7	537.9	418.1	290.6	220.7	177.5	167.5	164.1
20°	673.2	672.1	643.3	607.8	484.7	305.0	189.7	145.3	133.1	134.2	132.0
22.5°	707.6	702.0	667.7	594.5	386.0	203.0	135.3	129.8	125.3	124.2	126.4
25°	746.4	726.4	692.1	564.5	283.9	139.7	127.5	123.1	118.7	117.6	117.6
27.5°	761.9	748.6	703.1	492.4	179.7	122.0	119.8	114.2	108.7	105.4	104.3
30°	797.4	775.2	714.2	387.1	127.5	112.0	108.7	102.0	94.3	88.7	88.7
32.5°	832.9	806.3	715.3	270.6	106.5	100.9	95.4	86.5	76.5	71.0	72.1
35°	877.3	840.7	703.1	175.2	95.4	88.7	77.6	67.7	58.8	54.3	54.3
37.5°	952.7	918.3	653.2	115.3	86.5	75.4	64.3	53.2	45.5	42.1	42.1
40°	1048.1	1003.7	584.5	90.9	76.5	64.3	51.0	41.0	36.6	33.3	33.3
42.5°	1162.3	1106.8	482.4	81.0	67.7	53.2	39.9	32.2	27.7	27.7	26.6
45°	1276.5	1185.6	378.2	74.3	59.9	44.4	31.1	25.5	23.3	22.2	22.2
47.5°	1439.6	1281.0	270.6	67.7	52.1	34.4	25.5	21.1	18.9	17.7	18.9
50°	1595.9	1370.8	191.9	61.0	43.3	27.7	21.1	18.9	16.6	15.5	15.5
52.5°	1733.5	1432.9	134.2	53.2	36.6	23.3	18.9	16.6	15.5	14.4	14.4
55°	1808.9	1411.8	92.1	45.5	29.9	20.0	16.6	14.4	13.3	12.2	12.2
57.5°	1886.5	1353.1	69.9	37.7	24.4	18.9	15.5	13.3	12.2	11.1	11.1
60°	1952.0	1309.8	54.3	29.9	20.0	15.5	13.3	11.1	10.0	8.9	7.8
62.5°	1955.3	1223.3	39.9	22.2	15.5	13.3	11.1	8.9	5.5	4.4	3.3
65°	1968.6	1132.4	28.8	16.6	11.1	10.0	7.8	4.4	2.2	0.0	0.0
67.5°	1922.0	1024.8	23.3	12.2	7.8	5.5	3.3	1.1	0.0	0.0	0.0
70°	1732.4	865.1	17.7	8.9	5.5	3.3	1.1	0.0	0.0	0.0	0.0
72.5°	1239.9	562.3	12.2	6.7	2.2	1.1	0.0	0.0	0.0	0.0	0.0
75°	661.0	239.6	8.9	4.4	1.1	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	207.4	61.0	5.5	2.2	1.1	0.0	0.0	0.0	0.0	0.0	0.0
80°	45.5	16.6	3.3	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	15.5	6.7	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)