

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: P676489

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

Issue Date: 04/25/2023



**Test Information**

Test Method: LM-79-08  
Report Number: P676489  
Test Lab: INNOVATION CENTER(G1)  
Issue Date: 04/25/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: CCW-SA-1F-840-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) 4000K CCT, 80 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

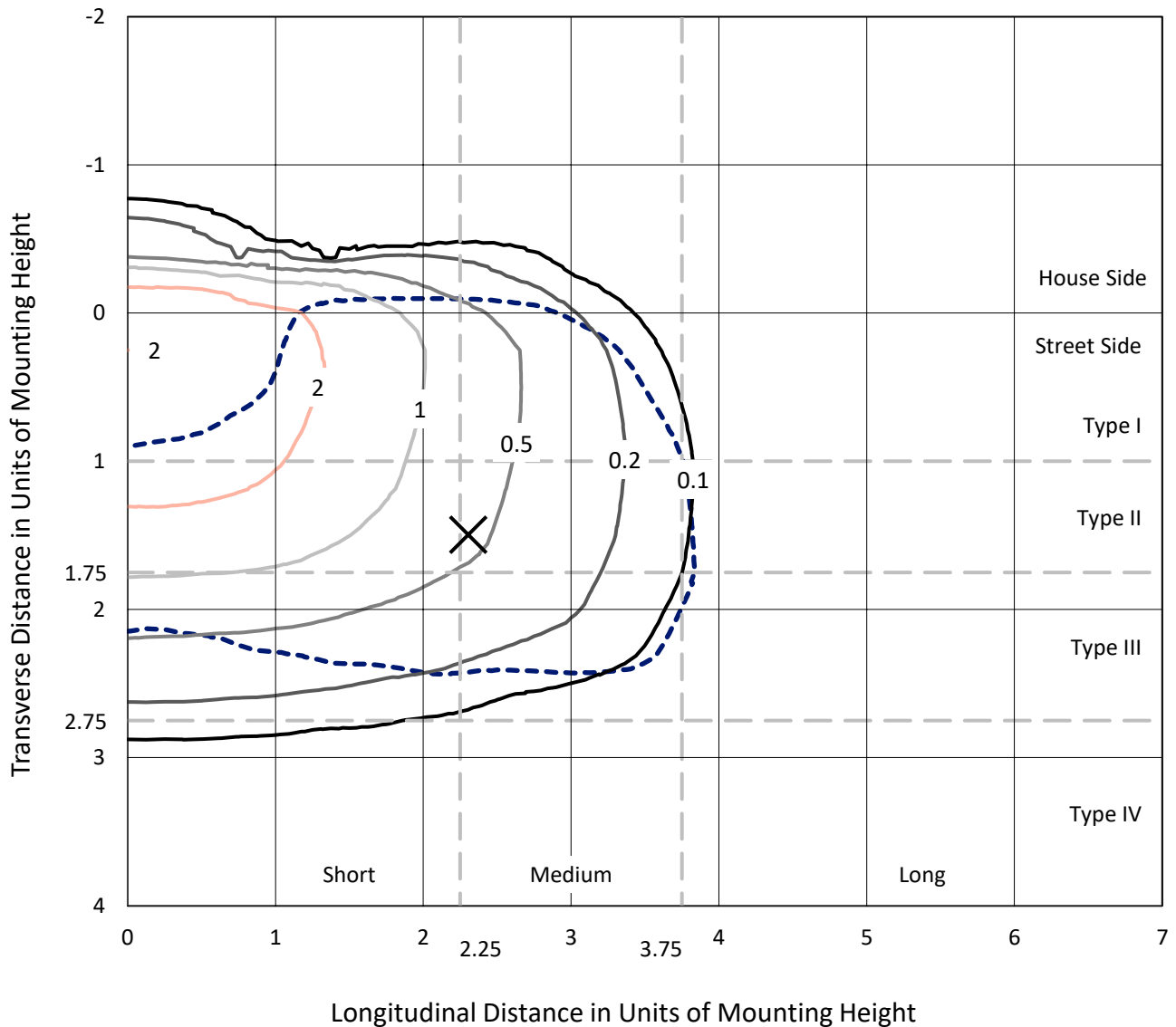
Lumens per Lamp: N/A  
Luminaire Lumens: 4605.3 lumens  
Efficiency: N/A  
Efficacy: 68.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B1 - U0 - G1

Input Watts (W): 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

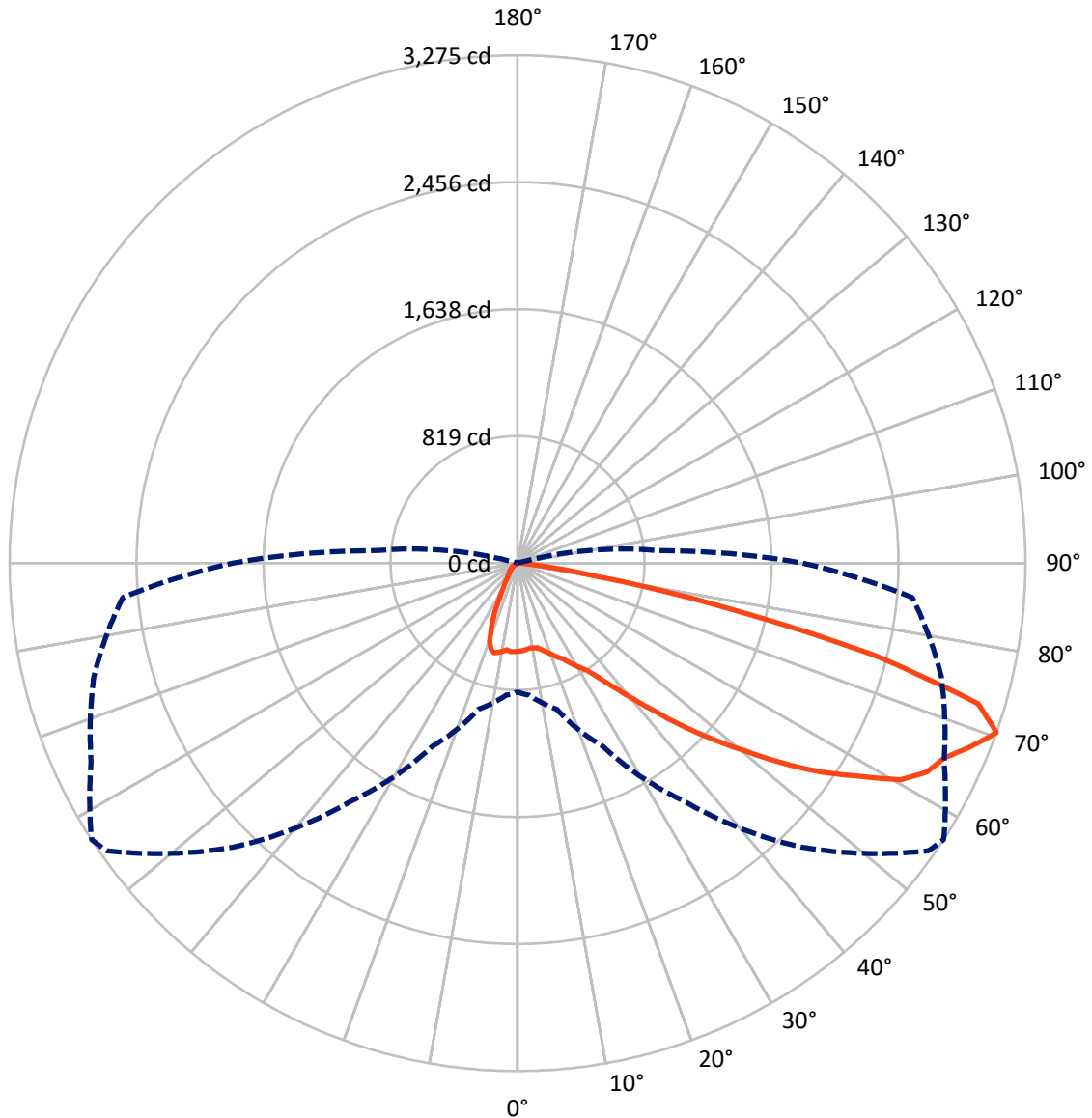
× Max cd  
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 3.2 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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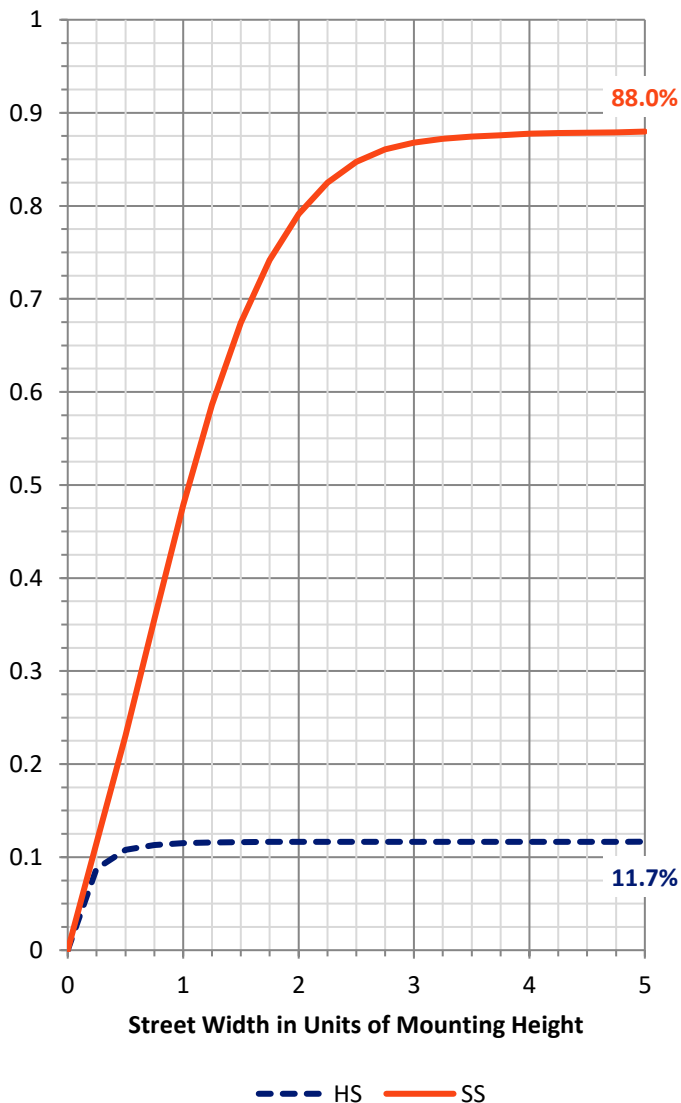
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	542.8	0.0	542.8
	% Fixture	11.8	0.0	11.8
<b>Street Side</b>	Lumens	4062.4	0.0	4062.4
	% Fixture	88.2	0.0	88.2
<b>Total</b>	Lumens	4605.3	0.0	4605.3
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	53.1	1.2
10°-20°	148.5	3.2
20°-30°	250.1	5.4
30°-40°	428.0	9.3
40°-50°	718.7	15.6
50°-60°	1103.1	24.0
60°-70°	1273.6	27.7
70°-80°	601.6	13.1
80°-90°	28.5	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°	4605.3	100.0
0°-180°	4605.3	100.0



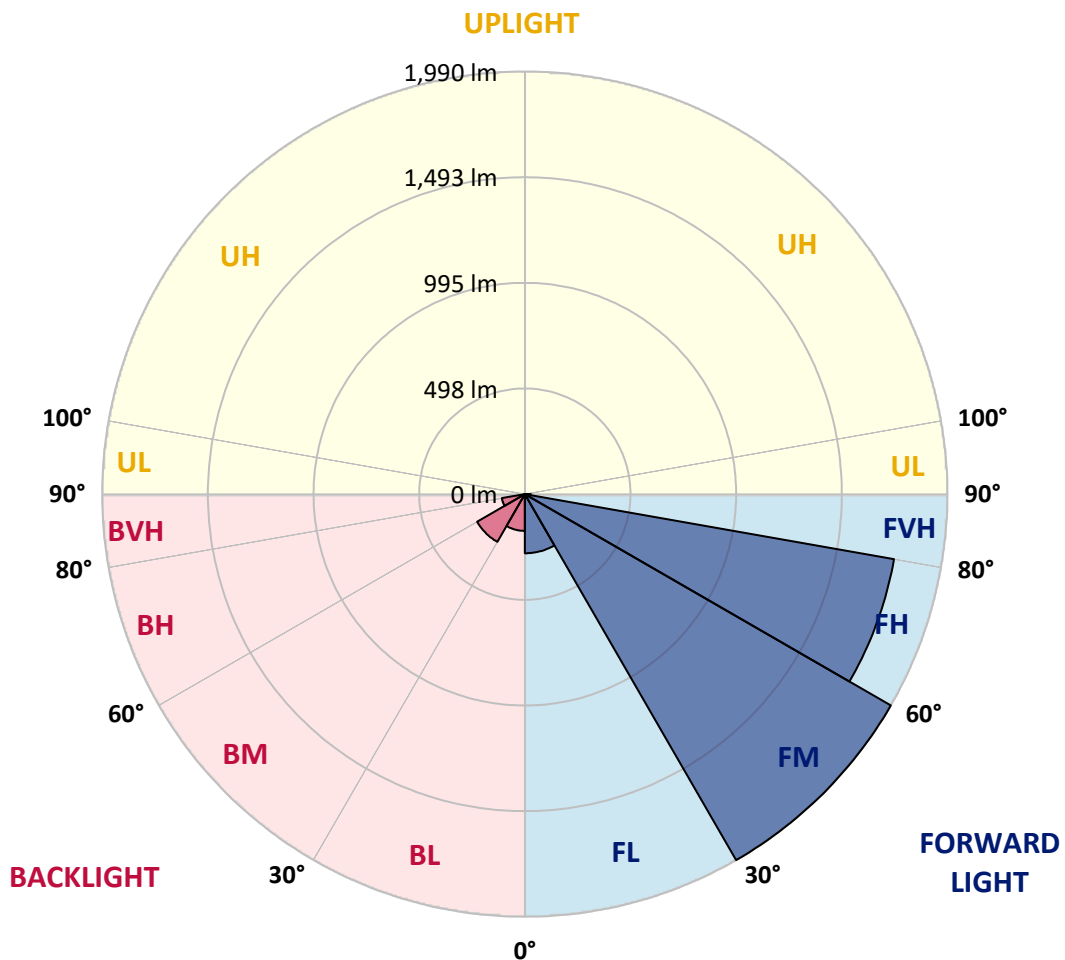
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	278.6	6.0			
FM (30°-60°)	1990.3	43.2			
FH (60°-80°)	1765.5	38.3			G1/1800
FVH (80°-90°)	28.0	0.6			G1/100
BL (0°-30°)	173.1	3.8	B1/500		
BM (30°-60°)	259.5	5.6	B1/1000		
BH (60°-80°)	109.8	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°	568.2	568.2	568.2	568.2	568.2	568.2	568.2	568.2	568.2	568.2	568.2
2.5°	560.0	556.5	560.0	564.7	560.0	563.5	562.3	565.9	561.2	561.2	564.7
5°	523.5	529.4	531.8	537.6	543.5	554.1	561.2	561.2	568.2	571.8	576.5
7.5°	510.6	501.2	510.6	515.3	521.2	538.8	549.4	554.1	563.5	576.5	583.5
10°	491.8	498.8	498.8	514.1	522.3	532.9	551.8	555.3	576.5	589.4	596.5
12.5°	490.6	490.6	496.5	507.1	523.5	543.5	567.1	560.0	582.3	605.9	617.6
15°	494.1	502.3	502.3	516.5	529.4	557.6	577.6	578.8	610.6	634.1	644.7
17.5°	509.4	505.9	510.6	518.8	538.8	565.9	598.8	602.3	638.8	670.6	685.9
20°	541.2	547.1	540.0	535.3	543.5	578.8	621.2	628.2	669.4	700.0	715.3
22.5°	660.0	655.3	627.0	594.1	580.0	596.5	642.3	658.8	707.0	743.5	756.5
25°	794.1	785.9	752.9	703.5	638.8	631.8	684.7	684.7	754.1	794.1	790.6
27.5°	921.2	918.8	880.0	828.2	736.5	685.9	718.8	731.8	807.0	840.0	824.7
30°	1050.6	1052.9	1017.6	955.3	858.8	772.9	767.0	777.6	847.0	898.8	867.0
32.5°	1201.2	1180.0	1155.3	1069.4	981.2	884.7	829.4	824.7	891.8	938.8	896.5
35°	1335.3	1322.3	1295.3	1217.6	1116.5	1001.2	923.5	911.8	948.2	1010.6	964.7
37.5°	1452.9	1440.0	1404.7	1352.9	1274.1	1145.9	1036.5	1018.8	1034.1	1100.0	1044.7
40°	1554.1	1557.6	1548.2	1497.6	1424.7	1308.2	1182.3	1154.1	1141.2	1200.0	1137.6
42.5°	1627.0	1661.2	1663.5	1601.2	1542.3	1478.8	1337.6	1315.3	1284.7	1334.1	1290.6
45°	1780.0	1761.2	1772.9	1750.6	1685.9	1676.4	1516.4	1503.5	1461.2	1477.6	1431.7
47.5°	1900.0	1896.4	1918.8	1882.3	1864.7	1865.9	1720.0	1697.6	1637.6	1668.2	1616.4
50°	1969.4	1950.6	2031.7	2060.0	2056.4	2070.6	1925.9	1907.0	1849.4	1894.1	1783.5
52.5°	1985.9	2020.0	2096.4	2198.8	2242.3	2271.7	2150.6	2143.5	2081.1	2109.4	1956.4
55°	2027.0	2060.0	2104.7	2272.9	2434.1	2441.1	2371.7	2378.8	2323.5	2316.4	2121.1
57.5°	2025.9	2018.8	2142.3	2337.6	2561.1	2662.3	2624.7	2590.6	2530.6	2461.1	2227.0
60°	1951.7	1948.2	2076.4	2345.8	2630.5	2862.3	2877.6	2837.6	2687.0	2584.7	2351.7
62.5°	1804.7	1818.8	1948.2	2275.3	2696.4	2934.1	2990.5	2963.5	2776.4	2667.0	2498.8
65°	1636.4	1607.0	1757.6	2098.8	2548.2	2912.9	3035.2	3025.8	2882.3	2756.4	2634.1
67.5°	1312.9	1325.9	1441.2	1805.9	2295.3	2835.3	3140.0	3154.1	2967.0	2835.3	2675.3
70°	831.8	855.3	975.3	1304.7	1874.1	2590.6	3234.1	3275.2	3034.1	2828.2	2555.3
72.5°	242.3	251.8	415.3	650.6	1194.1	2077.6	3083.5	3104.7	2903.5	2567.0	1976.4
75°	80.0	84.7	122.4	211.8	468.2	1074.1	2277.6	2377.6	2310.6	1861.1	1130.6
77.5°	52.9	55.3	67.1	101.2	177.6	336.5	1221.2	1328.2	1302.3	871.8	364.7
80°	38.8	40.0	49.4	68.2	108.2	121.2	450.6	521.2	503.5	200.0	72.9
82.5°	24.7	24.7	36.5	48.2	68.2	60.0	130.6	144.7	141.2	76.5	28.2
85°	16.5	17.6	27.1	37.6	37.6	28.2	37.6	43.5	47.1	41.2	12.9
87.5°	4.7	5.9	15.3	25.9	15.3	14.1	12.9	14.1	16.5	22.4	7.1
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°	568.2	568.2	568.2	568.2	568.2	568.2	568.2	568.2	568.2	568.2	568.2
2.5°	568.2	572.9	571.8	574.1	570.6	567.1	570.6	570.6	570.6	567.1	564.7
5°	572.9	570.6	572.9	568.2	572.9	568.2	565.9	558.8	557.6	557.6	562.3
7.5°	580.0	582.3	571.8	571.8	561.2	563.5	557.6	558.8	556.5	552.9	550.6
10°	590.6	600.0	589.4	585.9	574.1	564.7	550.6	543.5	543.5	538.8	543.5
12.5°	620.0	616.5	610.6	598.8	584.7	565.9	531.8	497.6	469.4	448.2	458.8
15°	643.5	642.3	634.1	611.8	592.9	535.3	449.4	361.2	314.1	292.9	289.4
17.5°	680.0	676.5	662.3	632.9	570.6	443.5	308.2	234.1	188.2	177.6	174.1
20°	714.1	712.9	682.3	644.7	514.1	323.5	201.2	154.1	141.2	142.4	140.0
22.5°	750.6	744.7	708.2	630.6	409.4	215.3	143.5	137.6	132.9	131.8	134.1
25°	791.8	770.6	734.1	598.8	301.2	148.2	135.3	130.6	125.9	124.7	124.7
27.5°	808.2	794.1	745.9	522.3	190.6	129.4	127.1	121.2	115.3	111.8	110.6
30°	845.9	822.3	757.6	410.6	135.3	118.8	115.3	108.2	100.0	94.1	94.1
32.5°	883.5	855.3	758.8	287.1	112.9	107.1	101.2	91.8	81.2	75.3	76.5
35°	930.6	891.8	745.9	185.9	101.2	94.1	82.4	71.8	62.4	57.6	57.6
37.5°	1010.6	974.1	692.9	122.4	91.8	80.0	68.2	56.5	48.2	44.7	44.7
40°	1111.7	1064.7	620.0	96.5	81.2	68.2	54.1	43.5	38.8	35.3	35.3
42.5°	1232.9	1174.1	511.8	85.9	71.8	56.5	42.4	34.1	29.4	29.4	28.2
45°	1354.1	1257.6	401.2	78.8	63.5	47.1	32.9	27.1	24.7	23.5	23.5
47.5°	1527.0	1358.8	287.1	71.8	55.3	36.5	27.1	22.4	20.0	18.8	20.0
50°	1692.9	1454.1	203.5	64.7	45.9	29.4	22.4	20.0	17.6	16.5	16.5
52.5°	1838.8	1520.0	142.4	56.5	38.8	24.7	20.0	17.6	16.5	15.3	15.3
55°	1918.8	1497.6	97.6	48.2	31.8	21.2	17.6	15.3	14.1	12.9	12.9
57.5°	2001.1	1435.3	74.1	40.0	25.9	20.0	16.5	14.1	12.9	11.8	11.8
60°	2070.6	1389.4	57.6	31.8	21.2	16.5	14.1	11.8	10.6	9.4	8.2
62.5°	2074.1	1297.6	42.4	23.5	16.5	14.1	11.8	9.4	5.9	4.7	3.5
65°	2088.2	1201.2	30.6	17.6	11.8	10.6	8.2	4.7	2.4	0.0	0.0
67.5°	2038.8	1087.0	24.7	12.9	8.2	5.9	3.5	1.2	0.0	0.0	0.0
70°	1837.6	917.6	18.8	9.4	5.9	3.5	1.2	0.0	0.0	0.0	0.0
72.5°	1315.3	596.5	12.9	7.1	2.4	1.2	0.0	0.0	0.0	0.0	0.0
75°	701.2	254.1	9.4	4.7	1.2	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	220.0	64.7	5.9	2.4	1.2	0.0	0.0	0.0	0.0	0.0	0.0
80°	48.2	17.6	3.5	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	16.5	7.1	2.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	5.9	2.4	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.4	1.2	1.2	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)