

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: P676633

Luminaire Tested: **CCW-SA-1F-840-U-T4FT-HSS**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P676633
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-T4FT-HSS
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @1200mA w/
T4FT distribution lens and House Side Shield
Light Source: (16) 4000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

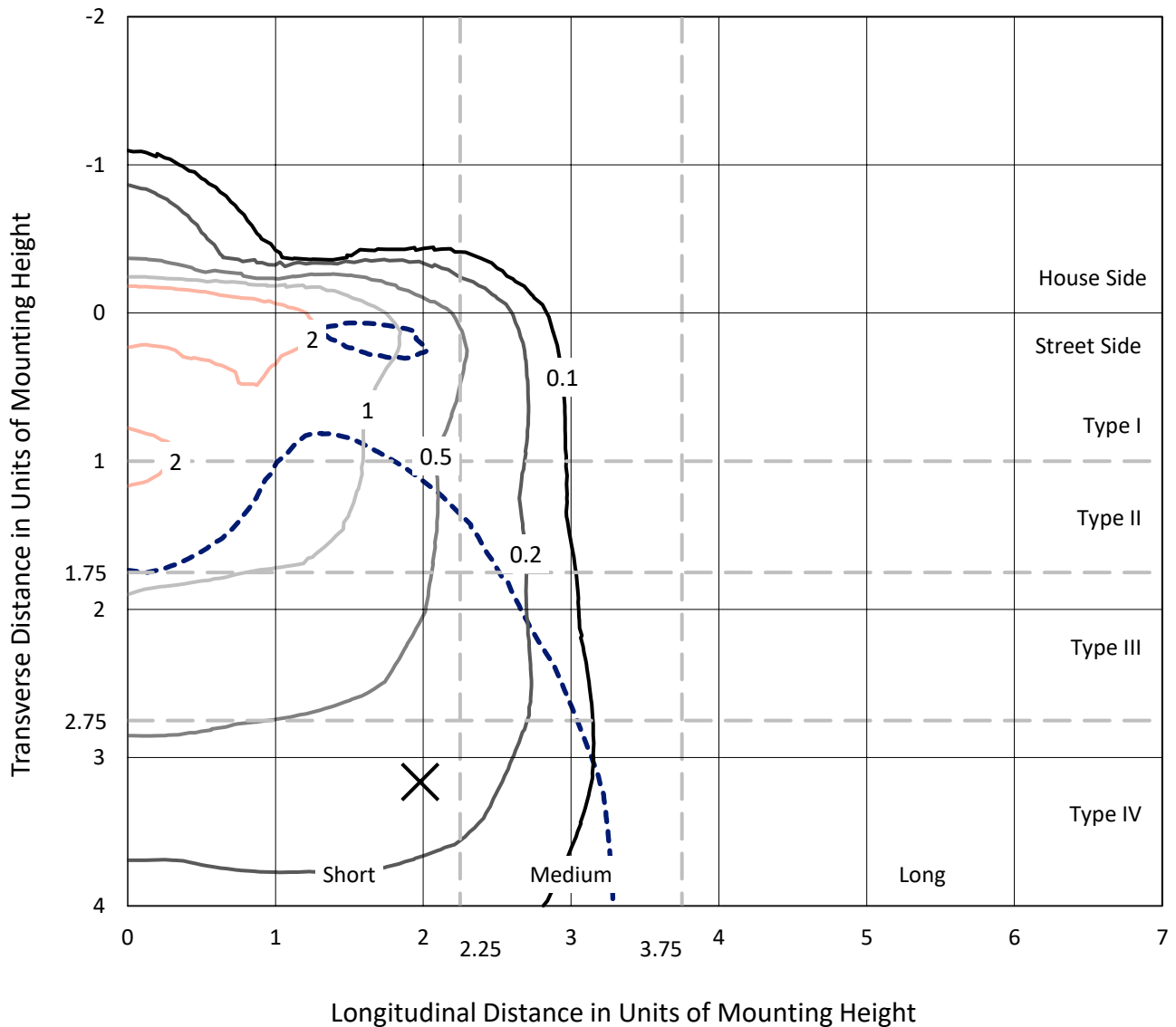
Lumens per Lamp: N/A
Luminaire Lumens: 4590.1 lumens
Efficiency: N/A
Efficacy: 68.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 67
Input Voltage (V): 120
Input Current (A_{in}): 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

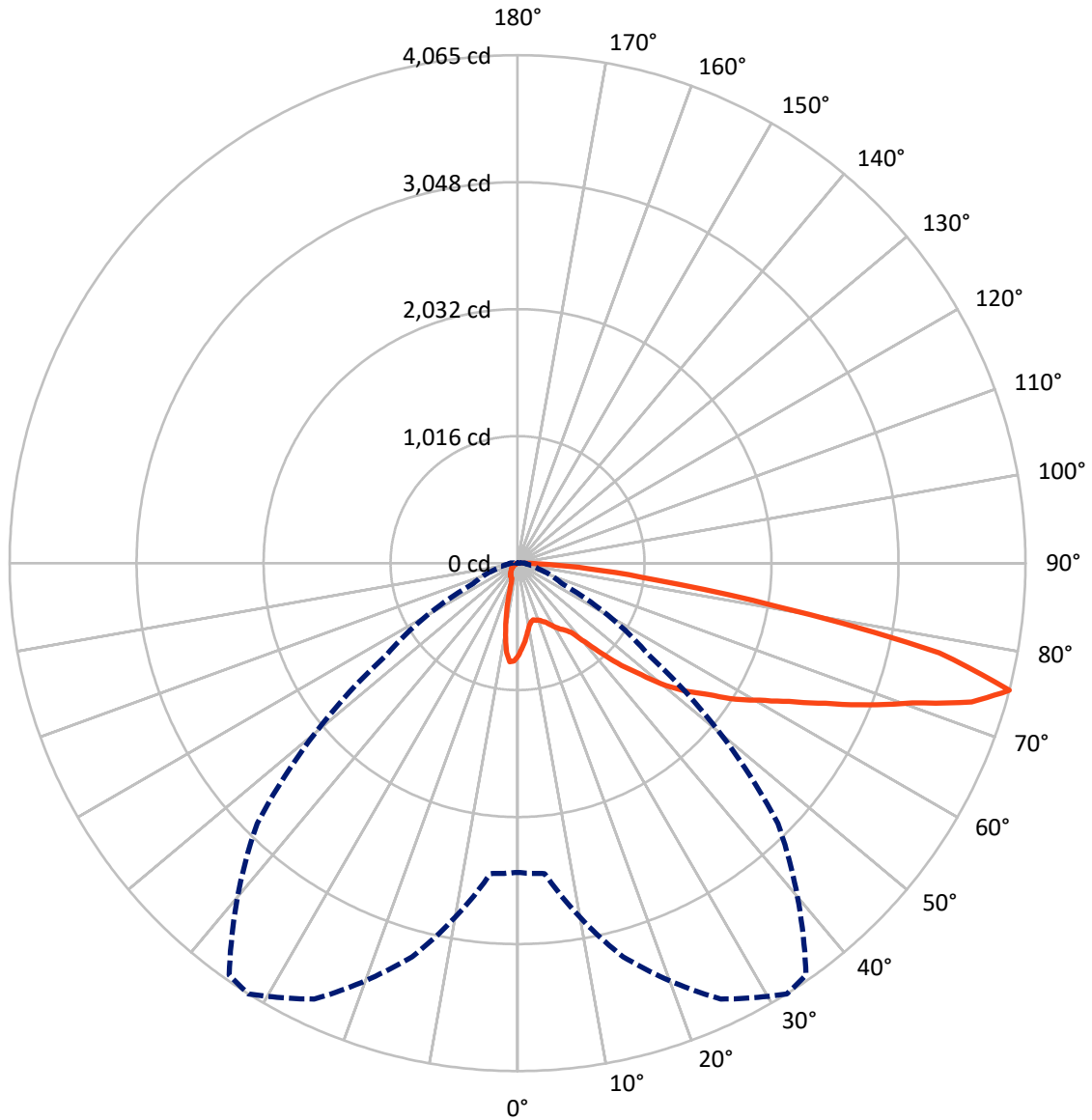
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 3.3 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 32-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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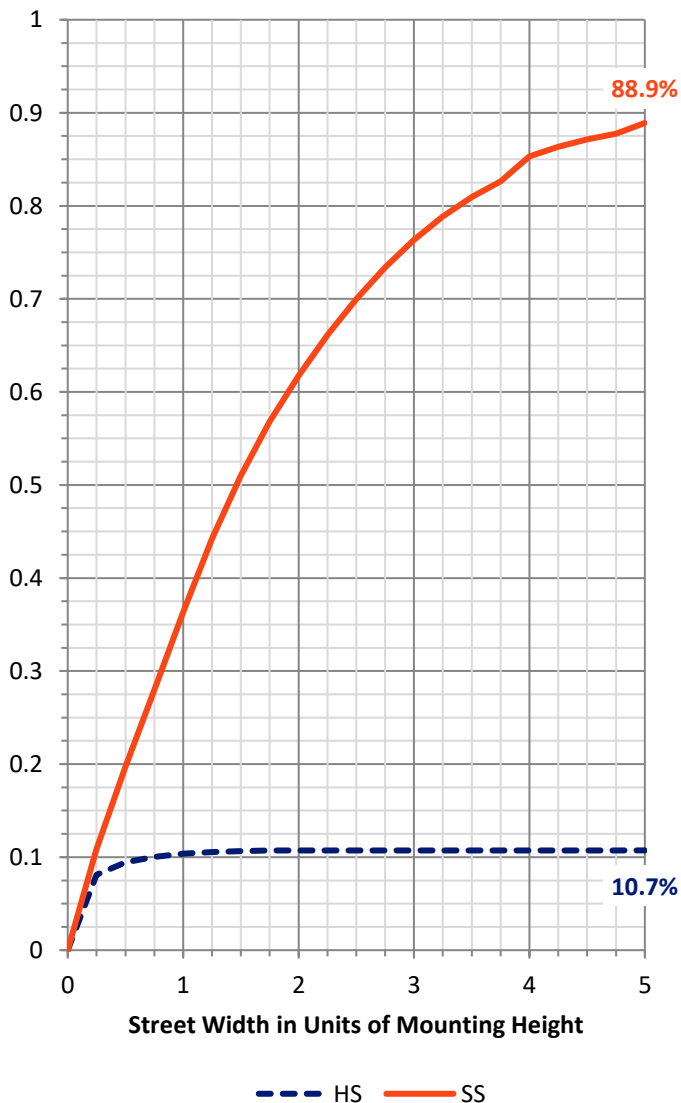
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	495.9	0.0	495.9
	% Fixture	10.8	0.0	10.8
Street Side	Lumens	4094.2	0.0	4094.2
	% Fixture	89.2	0.0	89.2
Total	Lumens	4590.1	0.0	4590.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	65.1	1.4
10°-20°	147.9	3.2
20°-30°	221.4	4.8
30°-40°	339.9	7.4
40°-50°	594.3	12.9
50°-60°	929.0	20.2
60°-70°	1201.1	26.2
70°-80°	978.2	21.3
80°-90°	113.2	2.5
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°	4590.1	100.0
0°-180°	4590.1	100.0



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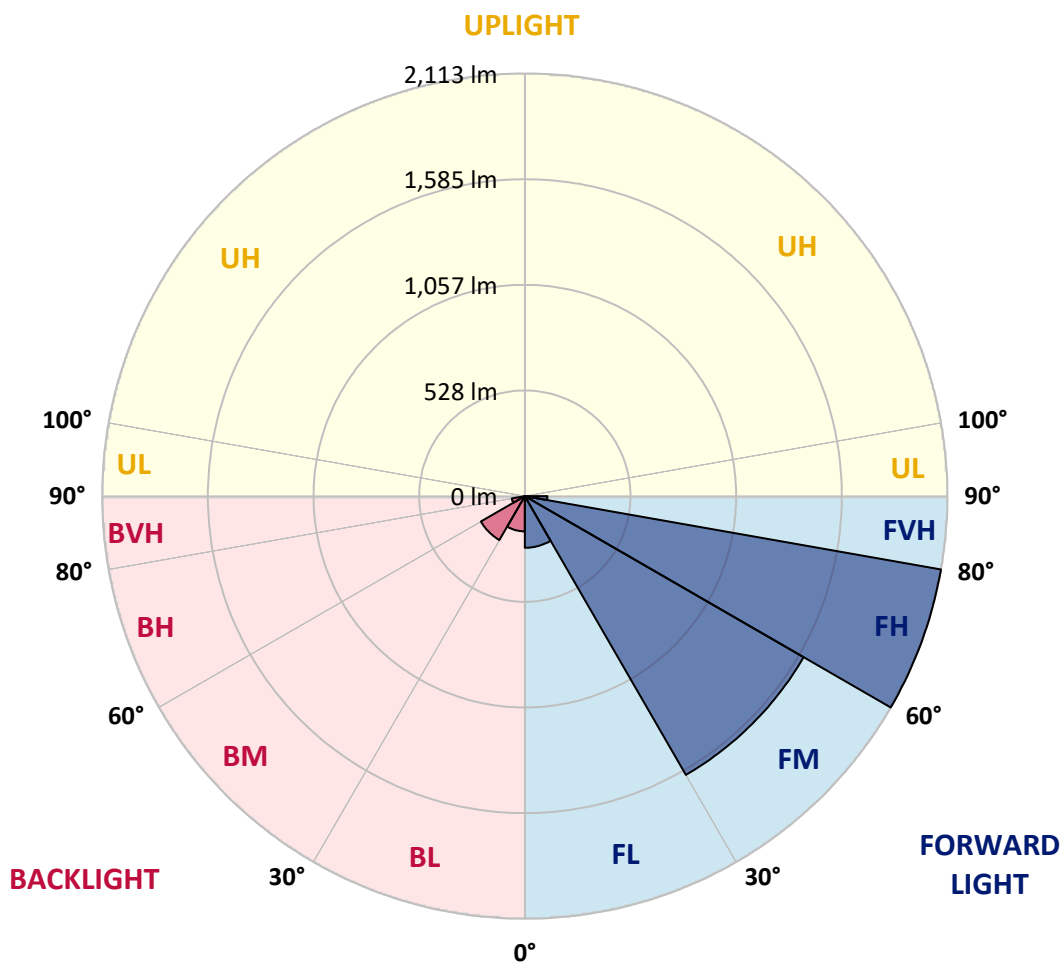
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	258.3	5.6			
FM (30°-60°)	1609.5	35.1			
FH (60°-80°)	2113.3	46.0			G2/5000
FVH (80°-90°)	113.2	2.5			G2/225
BL (0°-30°)	176.1	3.8	B1/500		
BM (30°-60°)	253.7	5.5	B1/1000		
BH (60°-80°)	66.0	1.4	B0/110		G0/110
BVH (80°-90°)	0.1	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-G2

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	32°	35°	45°	55°	65°	75°	85°
0°	741.2	741.2	741.2	741.2	741.2	741.2	741.2	741.2	741.2	741.2	741.2
2.5°	664.7	674.1	672.9	678.8	680.0	683.5	691.8	691.8	715.3	731.8	742.3
5°	604.7	598.8	601.2	608.2	625.9	624.7	644.7	655.3	683.5	707.0	731.8
7.5°	530.6	529.4	534.1	550.6	563.5	574.1	595.3	622.3	660.0	695.3	738.8
10°	483.5	481.2	490.6	495.3	510.6	517.6	550.6	592.9	637.6	688.2	738.8
12.5°	472.9	464.7	469.4	468.2	482.3	485.9	517.6	569.4	623.5	685.9	748.2
15°	478.8	472.9	468.2	468.2	471.8	474.1	508.2	554.1	615.3	689.4	769.4
17.5°	497.6	494.1	480.0	465.9	481.2	481.2	502.3	550.6	616.5	700.0	795.3
20°	520.0	516.5	491.8	475.3	485.9	497.6	520.0	558.8	620.0	708.2	835.3
22.5°	544.7	544.7	510.6	491.8	505.9	507.1	547.0	584.7	634.1	729.4	861.2
25°	575.3	572.9	540.0	518.8	523.5	536.5	572.9	612.9	660.0	758.8	909.4
27.5°	615.3	611.8	572.9	551.8	557.6	571.8	612.9	652.9	683.5	770.6	950.6
30°	648.2	644.7	612.9	581.2	594.1	607.0	655.3	690.6	712.9	792.9	997.6
32.5°	655.3	649.4	628.2	614.1	628.2	652.9	690.6	727.0	761.2	849.4	1087.0
35°	736.5	715.3	660.0	637.6	658.8	667.0	729.4	794.1	827.0	894.1	1187.0
37.5°	891.7	871.8	798.8	736.5	707.0	716.5	797.6	877.6	909.4	977.6	1296.4
40°	1082.3	1049.4	971.7	888.2	828.2	816.5	869.4	987.0	1017.6	1082.3	1440.0
42.5°	1300.0	1268.2	1148.2	1049.4	988.2	972.9	981.2	1114.1	1140.0	1178.8	1534.1
45°	1456.4	1440.0	1304.7	1216.5	1168.2	1151.7	1131.7	1252.9	1285.9	1298.8	1670.6
47.5°	1547.0	1535.3	1460.0	1400.0	1335.3	1317.6	1330.6	1445.9	1423.5	1434.1	1801.1
50°	1668.2	1637.6	1535.3	1554.1	1541.2	1536.4	1558.8	1609.4	1576.4	1545.9	1943.5
52.5°	1765.9	1711.7	1640.0	1685.9	1705.9	1723.5	1802.3	1840.0	1692.9	1645.9	2035.3
55°	1825.9	1774.1	1792.9	1835.3	1856.4	1937.6	2030.6	2002.3	1769.4	1725.9	2157.6
57.5°	1880.0	1883.5	1934.1	1947.0	2055.3	2069.4	2248.2	2156.4	1823.5	1798.8	2205.8
60°	2010.6	1997.6	2038.8	2122.3	2225.8	2304.7	2475.3	2260.0	1850.6	1836.4	2192.9
62.5°	2245.8	2165.8	2180.0	2285.8	2437.6	2523.5	2605.8	2307.0	1843.5	1842.3	2154.1
65°	2544.7	2452.9	2410.5	2509.4	2705.8	2827.0	2752.9	2360.0	1796.4	1829.4	2009.4
67.5°	2792.9	2794.1	2715.2	2770.5	3027.0	3052.9	2891.7	2349.4	1717.6	1727.0	1656.4
70°	3078.8	3117.6	3048.2	3221.1	3349.4	3365.8	3050.5	2262.3	1548.2	1302.3	951.7
72.5°	3151.7	3171.7	3388.2	3654.1	3798.8	3803.5	3207.0	1971.7	1018.8	575.3	295.3
75°	2475.3	2494.1	3261.1	3849.3	4064.6	4023.5	2945.8	1280.0	396.5	168.2	70.6
77.5°	1381.2	1387.0	2024.7	3111.7	3448.2	3282.3	2063.5	498.8	160.0	96.5	32.9
80°	377.6	443.5	750.6	1534.1	2105.8	2067.0	982.3	162.4	103.5	75.3	15.3
82.5°	90.6	97.6	241.2	678.8	1112.9	1161.2	292.9	82.4	71.8	62.4	8.2
85°	32.9	36.5	74.1	330.6	571.8	524.7	88.2	41.2	52.9	48.2	3.5
87.5°	11.8	11.8	23.5	108.2	167.1	125.9	29.4	14.1	27.1	29.4	1.2
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°	741.2	741.2	741.2	741.2	741.2	741.2	741.2	741.2	741.2	741.2	741.2
2.5°	743.5	743.5	760.0	774.1	778.8	784.7	778.8	791.8	790.6	784.7	787.0
5°	744.7	765.9	780.0	789.4	794.1	792.9	795.3	781.2	772.9	767.0	761.2
7.5°	750.6	770.6	796.5	794.1	781.2	754.1	732.9	695.3	658.8	657.6	651.8
10°	770.6	788.2	803.5	794.1	747.0	664.7	597.6	547.0	501.2	480.0	482.3
12.5°	784.7	817.6	810.6	762.3	664.7	556.5	457.6	383.5	342.3	303.5	303.5
15°	814.1	825.9	823.5	716.5	563.5	434.1	314.1	238.8	195.3	177.6	175.3
17.5°	842.3	855.3	815.3	647.0	463.5	291.8	190.6	148.2	142.4	140.0	141.2
20°	877.6	878.8	808.2	577.6	348.2	184.7	136.5	132.9	134.1	132.9	132.9
22.5°	915.3	923.5	783.5	480.0	231.8	134.1	127.1	128.2	128.2	128.2	131.8
25°	964.7	951.7	744.7	387.1	151.8	123.5	123.5	124.7	124.7	124.7	125.9
27.5°	997.6	980.0	695.3	278.8	118.8	116.5	118.8	118.8	121.2	121.2	121.2
30°	1065.9	1020.0	632.9	180.0	107.1	110.6	112.9	115.3	116.5	118.8	120.0
32.5°	1118.8	1055.3	555.3	120.0	97.6	100.0	105.9	110.6	115.3	114.1	114.1
35°	1215.3	1112.9	483.5	95.3	89.4	89.4	95.3	103.5	110.6	112.9	112.9
37.5°	1325.9	1160.0	383.5	87.1	82.4	82.4	85.9	95.3	104.7	109.4	107.1
40°	1417.6	1214.1	283.5	81.2	76.5	76.5	78.8	85.9	96.5	104.7	105.9
42.5°	1482.3	1254.1	191.8	75.3	71.8	70.6	74.1	77.6	85.9	97.6	100.0
45°	1541.2	1275.3	118.8	69.4	67.1	67.1	67.1	70.6	76.5	87.1	89.4
47.5°	1645.9	1298.8	85.9	64.7	61.2	62.4	63.5	64.7	69.4	71.8	72.9
50°	1734.1	1316.4	70.6	60.0	57.6	58.8	58.8	58.8	61.2	57.6	57.6
52.5°	1801.1	1298.8	60.0	55.3	52.9	54.1	52.9	52.9	50.6	45.9	45.9
55°	1850.6	1267.0	48.2	50.6	50.6	50.6	48.2	44.7	40.0	36.5	36.5
57.5°	1863.5	1212.9	37.6	42.4	45.9	45.9	41.2	36.5	30.6	27.1	25.9
60°	1843.5	1095.3	28.2	30.6	35.3	36.5	32.9	27.1	21.2	17.6	17.6
62.5°	1771.7	1002.3	22.4	20.0	25.9	27.1	23.5	17.6	11.8	8.2	7.1
65°	1635.3	858.8	16.5	14.1	17.6	18.8	15.3	8.2	3.5	1.2	0.0
67.5°	1311.7	647.0	10.6	9.4	11.8	11.8	7.1	2.4	0.0	0.0	0.0
70°	725.9	363.5	7.1	4.7	5.9	3.5	1.2	0.0	0.0	0.0	0.0
72.5°	209.4	103.5	3.5	2.4	1.2	0.0	0.0	0.0	0.0	0.0	0.0
75°	56.5	24.7	2.4	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	24.7	9.4	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	10.6	3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	5.9	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	2.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.2	0.0	0.0	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)