

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: P676644

Luminaire Tested: **CCW-SA-1F-850-U-T4FT-HSS**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P676644
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-1F-850-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) 5000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

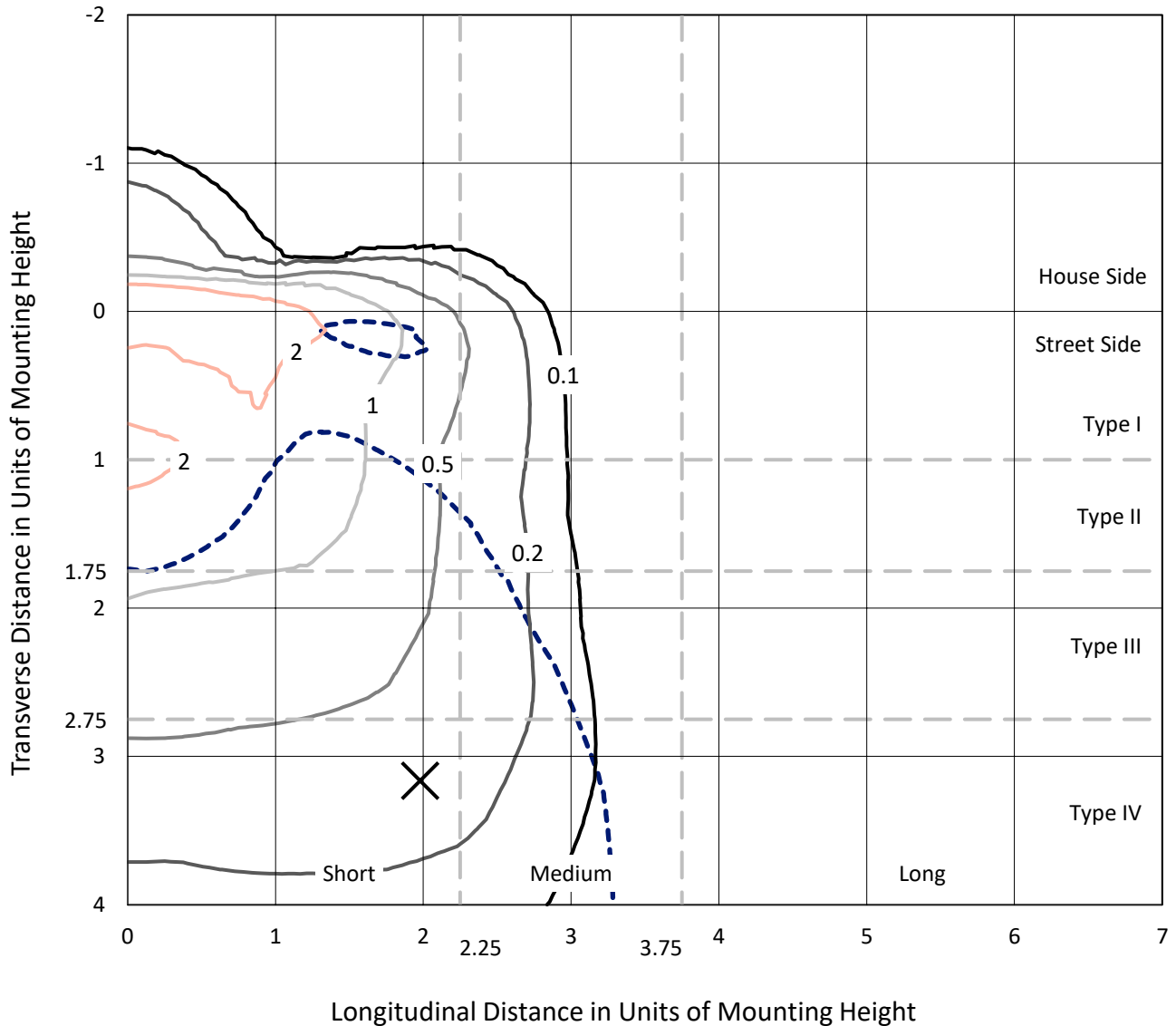
Lumens per Lamp: N/A
Luminaire Lumens: 4697.8 lumens
Efficiency: N/A
Efficacy: 70.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

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

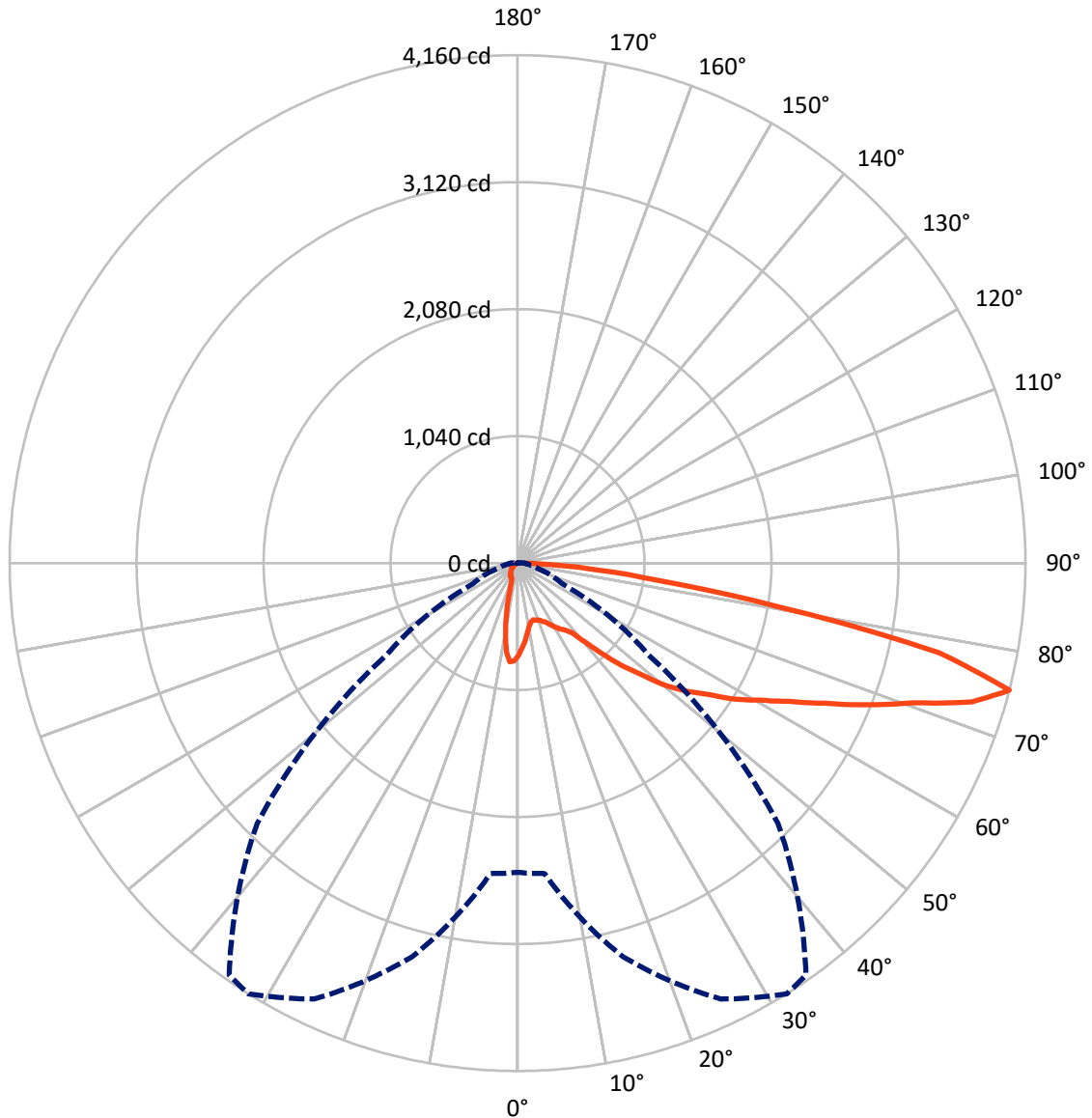
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 3.4 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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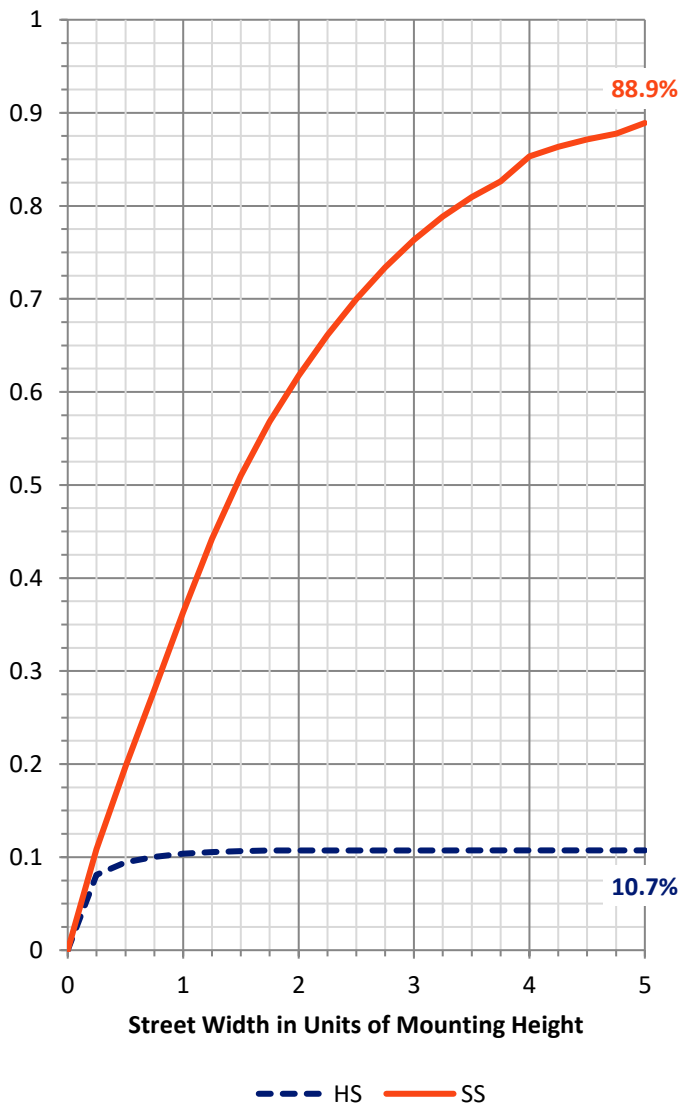
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	507.5	0.0	507.5
	% Fixture	10.8	0.0	10.8
Street Side	Lumens	4190.3	0.0	4190.3
	% Fixture	89.2	0.0	89.2
Total	Lumens	4697.8	0.0	4697.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	66.7	1.4
10°-20°	151.3	3.2
20°-30°	226.6	4.8
30°-40°	347.8	7.4
40°-50°	608.3	12.9
50°-60°	950.8	20.2
60°-70°	1229.2	26.2
70°-80°	1001.2	21.3
80°-90°	115.9	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°	4697.8	100.0
0°-180°	4697.8	100.0



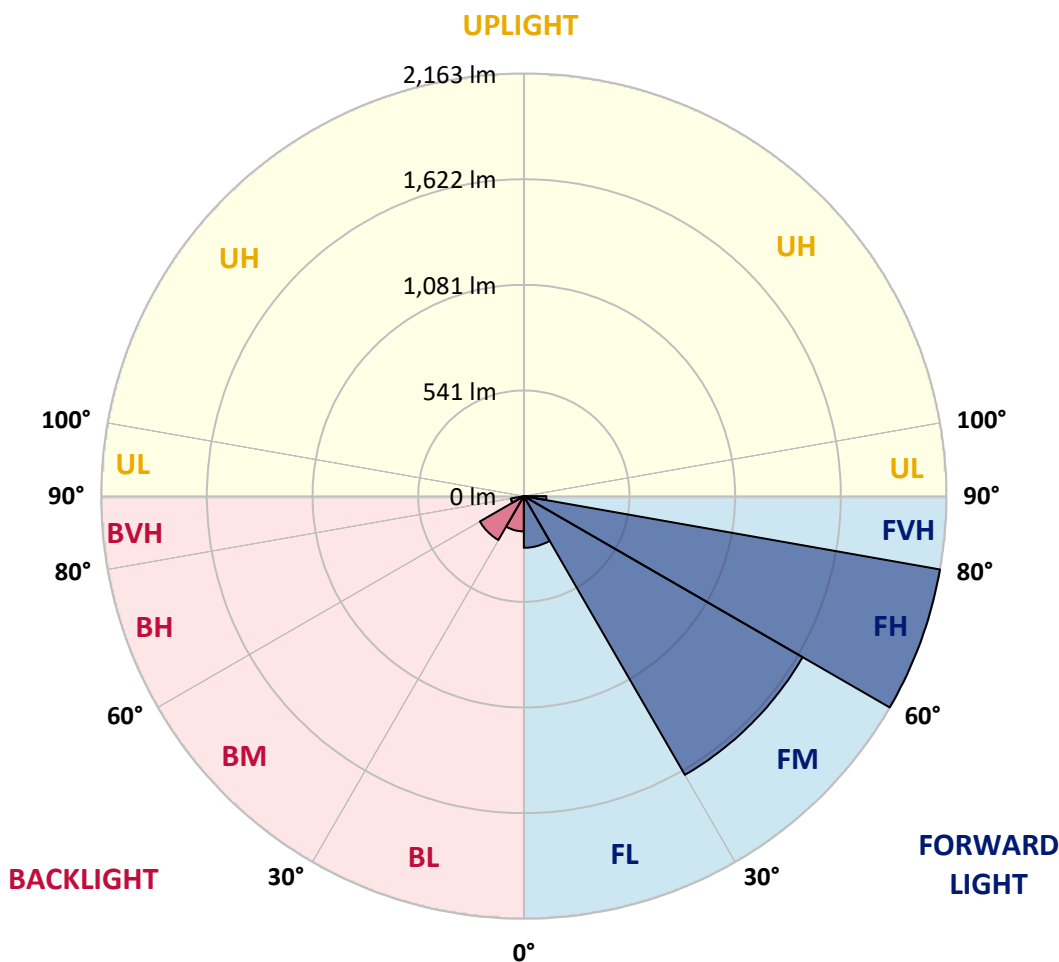
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	264.3	5.6			
FM (30°-60°)	1647.3	35.1			
FH (60°-80°)	2162.9	46.0			G2/5000
FVH (80°-90°)	115.8	2.5			G2/225
BL (0°-30°)	180.3	3.8	B1/500		
BM (30°-60°)	259.6	5.5	B1/1000		
BH (60°-80°)	67.5	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°	758.5	758.5	758.5	758.5	758.5	758.5	758.5	758.5	758.5	758.5	758.5
2.5°	680.3	689.9	688.7	694.7	695.9	699.6	708.0	708.0	732.1	748.9	759.8
5°	618.9	612.9	615.3	622.5	640.6	639.3	659.8	670.7	699.6	723.6	748.9
7.5°	543.0	541.8	546.6	563.5	576.7	587.6	609.2	636.9	675.5	711.6	756.1
10°	494.9	492.5	502.1	506.9	522.6	529.8	563.5	606.8	652.6	704.4	756.1
12.5°	484.0	475.6	480.4	479.2	493.7	497.3	529.8	582.8	638.1	702.0	765.8
15°	490.0	484.0	479.2	479.2	482.8	485.2	520.1	567.1	629.7	705.6	787.4
17.5°	509.3	505.7	491.3	476.8	492.5	492.5	514.1	563.5	630.9	716.4	813.9
20°	532.2	528.6	503.3	486.4	497.3	509.3	532.2	571.9	634.5	724.8	854.9
22.5°	557.5	557.5	522.6	503.3	517.7	518.9	559.9	598.4	649.0	746.5	881.4
25°	588.8	586.4	552.7	531.0	535.8	549.0	586.4	627.3	675.5	776.6	930.7
27.5°	629.7	626.1	586.4	564.7	570.7	585.2	627.3	668.2	699.6	788.7	972.9
30°	663.4	659.8	627.3	594.8	608.0	621.3	670.7	706.8	729.7	811.5	1021.0
32.5°	670.7	664.6	643.0	628.5	643.0	668.2	706.8	744.1	779.0	869.3	1112.5
35°	753.7	732.1	675.5	652.6	674.3	682.7	746.5	812.7	846.4	915.1	1214.9
37.5°	912.7	892.2	817.5	753.7	723.6	733.3	816.3	898.2	930.7	1000.6	1326.9
40°	1107.7	1074.0	994.5	909.1	847.6	835.6	889.8	1010.2	1041.5	1107.7	1473.8
42.5°	1330.5	1298.0	1175.2	1074.0	1011.4	995.7	1004.2	1140.2	1166.7	1206.5	1570.1
45°	1490.6	1473.8	1335.3	1245.0	1195.6	1178.8	1158.3	1282.3	1316.0	1329.3	1709.7
47.5°	1583.3	1571.3	1494.2	1432.8	1366.6	1348.5	1361.8	1479.8	1456.9	1467.7	1843.4
50°	1707.3	1676.0	1571.3	1590.5	1577.3	1572.5	1595.4	1647.1	1613.4	1582.1	1989.1
52.5°	1807.3	1751.9	1678.4	1725.4	1745.9	1763.9	1844.6	1883.1	1732.6	1684.5	2083.0
55°	1868.7	1815.7	1835.0	1878.3	1900.0	1983.1	2078.2	2049.3	1810.9	1766.3	2208.2
57.5°	1924.1	1927.7	1979.5	1992.7	2103.5	2117.9	2300.9	2207.0	1866.3	1841.0	2257.6
60°	2057.7	2044.5	2086.6	2172.1	2278.1	2358.7	2533.3	2313.0	1894.0	1879.5	2244.3
62.5°	2298.5	2216.7	2231.1	2339.5	2494.8	2582.7	2667.0	2361.1	1886.7	1885.5	2204.6
65°	2604.4	2510.4	2467.1	2568.2	2769.3	2893.3	2817.5	2415.3	1838.6	1872.3	2056.5
67.5°	2858.4	2859.6	2778.9	2835.5	3098.0	3124.5	2959.5	2404.5	1757.9	1767.5	1695.3
70°	3151.0	3190.7	3119.7	3296.7	3427.9	3444.8	3122.1	2315.4	1584.5	1332.9	974.1
72.5°	3225.6	3246.1	3467.7	3739.8	3887.9	3892.7	3282.2	2018.0	1042.7	588.8	302.2
75°	2533.3	2552.6	3337.6	3939.6	4160.0	4117.8	3014.9	1310.0	405.8	172.2	72.2
77.5°	1413.6	1419.6	2072.2	3184.7	3529.1	3359.3	2111.9	510.5	163.8	98.7	33.7
80°	386.5	453.9	768.2	1570.1	2155.2	2115.5	1005.4	166.2	106.0	77.1	15.7
82.5°	92.7	99.9	246.8	694.7	1139.0	1188.4	299.8	84.3	73.4	63.8	8.4
85°	33.7	37.3	75.9	338.3	585.2	537.0	90.3	42.1	54.2	49.4	3.6
87.5°	12.0	12.0	24.1	110.8	171.0	128.8	30.1	14.4	27.7	30.1	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°	758.5	758.5	758.5	758.5	758.5	758.5	758.5	758.5	758.5	758.5	758.5
2.5°	761.0	761.0	777.8	792.3	797.1	803.1	797.1	810.3	809.1	803.1	805.5
5°	762.2	783.8	798.3	807.9	812.7	811.5	813.9	799.5	791.1	785.0	779.0
7.5°	768.2	788.7	815.1	812.7	799.5	771.8	750.1	711.6	674.3	673.1	667.0
10°	788.7	806.7	822.4	812.7	764.6	680.3	611.7	559.9	512.9	491.3	493.7
12.5°	803.1	836.8	829.6	780.2	680.3	569.5	468.4	392.5	350.4	310.6	310.6
15°	833.2	845.2	842.8	733.3	576.7	444.3	321.5	244.4	199.9	181.8	179.4
17.5°	862.1	875.3	834.4	662.2	474.4	298.6	195.1	151.7	145.7	143.3	144.5
20°	898.2	899.4	827.2	591.2	356.4	189.0	139.7	136.1	137.3	136.1	136.1
22.5°	936.7	945.2	801.9	491.3	237.2	137.3	130.0	131.2	131.2	131.2	134.9
25°	987.3	974.1	762.2	396.1	155.3	126.4	126.4	127.6	127.6	127.6	128.8
27.5°	1021.0	1003.0	711.6	285.4	121.6	119.2	121.6	121.6	124.0	124.0	124.0
30°	1090.9	1043.9	647.8	184.2	109.6	113.2	115.6	118.0	119.2	121.6	122.8
32.5°	1145.0	1080.0	568.3	122.8	99.9	102.3	108.4	113.2	118.0	116.8	116.8
35°	1243.8	1139.0	494.9	97.5	91.5	91.5	97.5	106.0	113.2	115.6	115.6
37.5°	1357.0	1187.2	392.5	89.1	84.3	84.3	87.9	97.5	107.2	112.0	109.6
40°	1450.9	1242.6	290.2	83.1	78.3	78.3	80.7	87.9	98.7	107.2	108.4
42.5°	1517.1	1283.5	196.3	77.1	73.4	72.2	75.9	79.5	87.9	99.9	102.3
45°	1577.3	1305.2	121.6	71.0	68.6	68.6	68.6	72.2	78.3	89.1	91.5
47.5°	1684.5	1329.3	87.9	66.2	62.6	63.8	65.0	66.2	71.0	73.4	74.7
50°	1774.8	1347.3	72.2	61.4	59.0	60.2	60.2	60.2	62.6	59.0	59.0
52.5°	1843.4	1329.3	61.4	56.6	54.2	55.4	54.2	54.2	51.8	47.0	47.0
55°	1894.0	1296.8	49.4	51.8	51.8	51.8	49.4	45.8	40.9	37.3	37.3
57.5°	1907.2	1241.4	38.5	43.3	47.0	47.0	42.1	37.3	31.3	27.7	26.5
60°	1886.7	1121.0	28.9	31.3	36.1	37.3	33.7	27.7	21.7	18.1	18.1
62.5°	1813.3	1025.8	22.9	20.5	26.5	27.7	24.1	18.1	12.0	8.4	7.2
65°	1673.6	879.0	16.9	14.4	18.1	19.3	15.7	8.4	3.6	1.2	0.0
67.5°	1342.5	662.2	10.8	9.6	12.0	12.0	7.2	2.4	0.0	0.0	0.0
70°	742.9	372.1	7.2	4.8	6.0	3.6	1.2	0.0	0.0	0.0	0.0
72.5°	214.3	106.0	3.6	2.4	1.2	0.0	0.0	0.0	0.0	0.0	0.0
75°	57.8	25.3	2.4	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	25.3	9.6	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	10.8	3.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	6.0	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)