

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: P676790

Luminaire Tested: **CCW-SA-2B-850-U-T4W-HSS**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P676790
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-T4W-HSS
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @450mA w/
T4W distribution lens and House Side Shield
Light Source: (32) 5000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

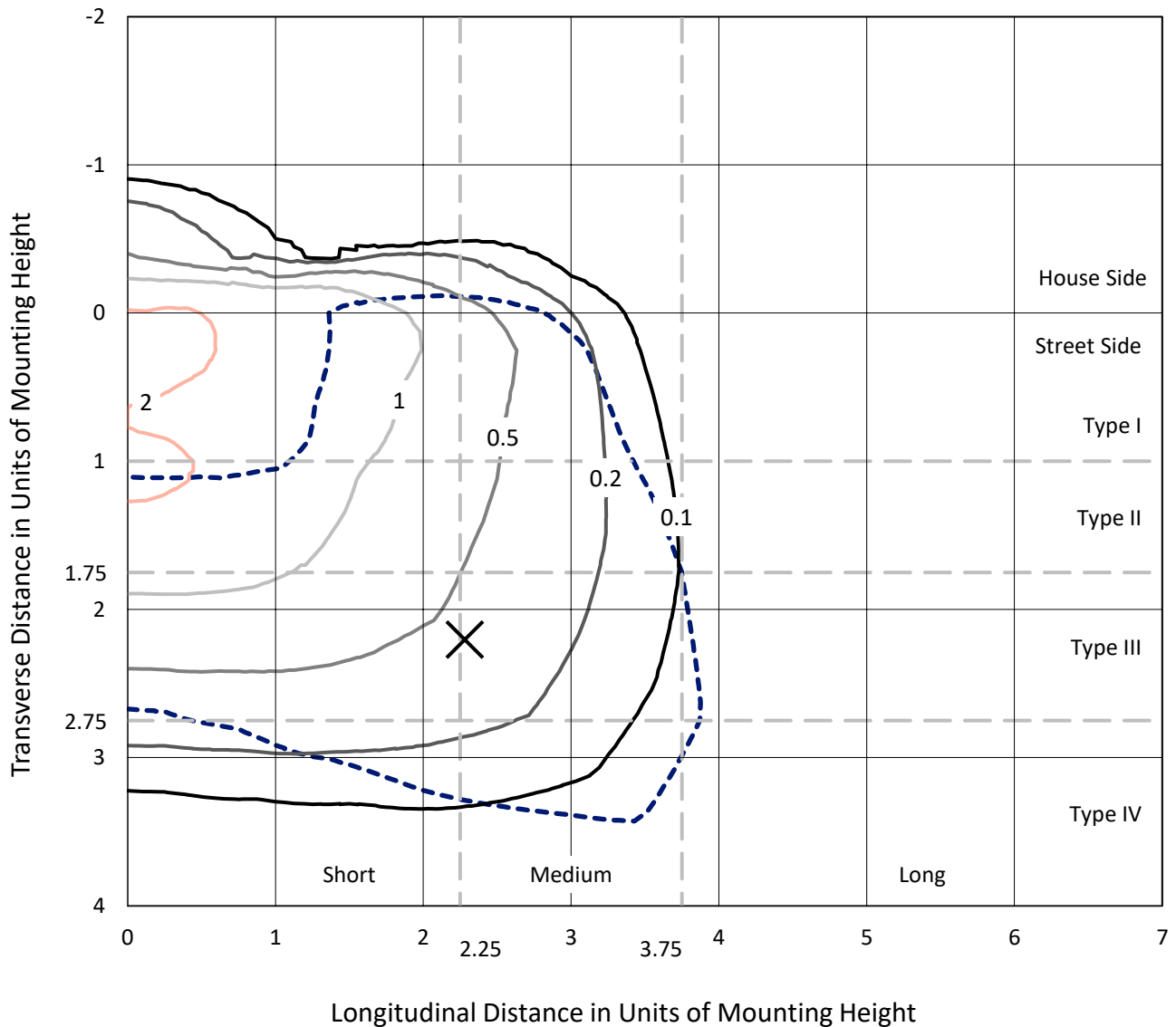
Lumens per Lamp: N/A
Luminaire Lumens: 4347.9 lumens
Efficiency: N/A
Efficacy: 94.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B1 - U0 - G2

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

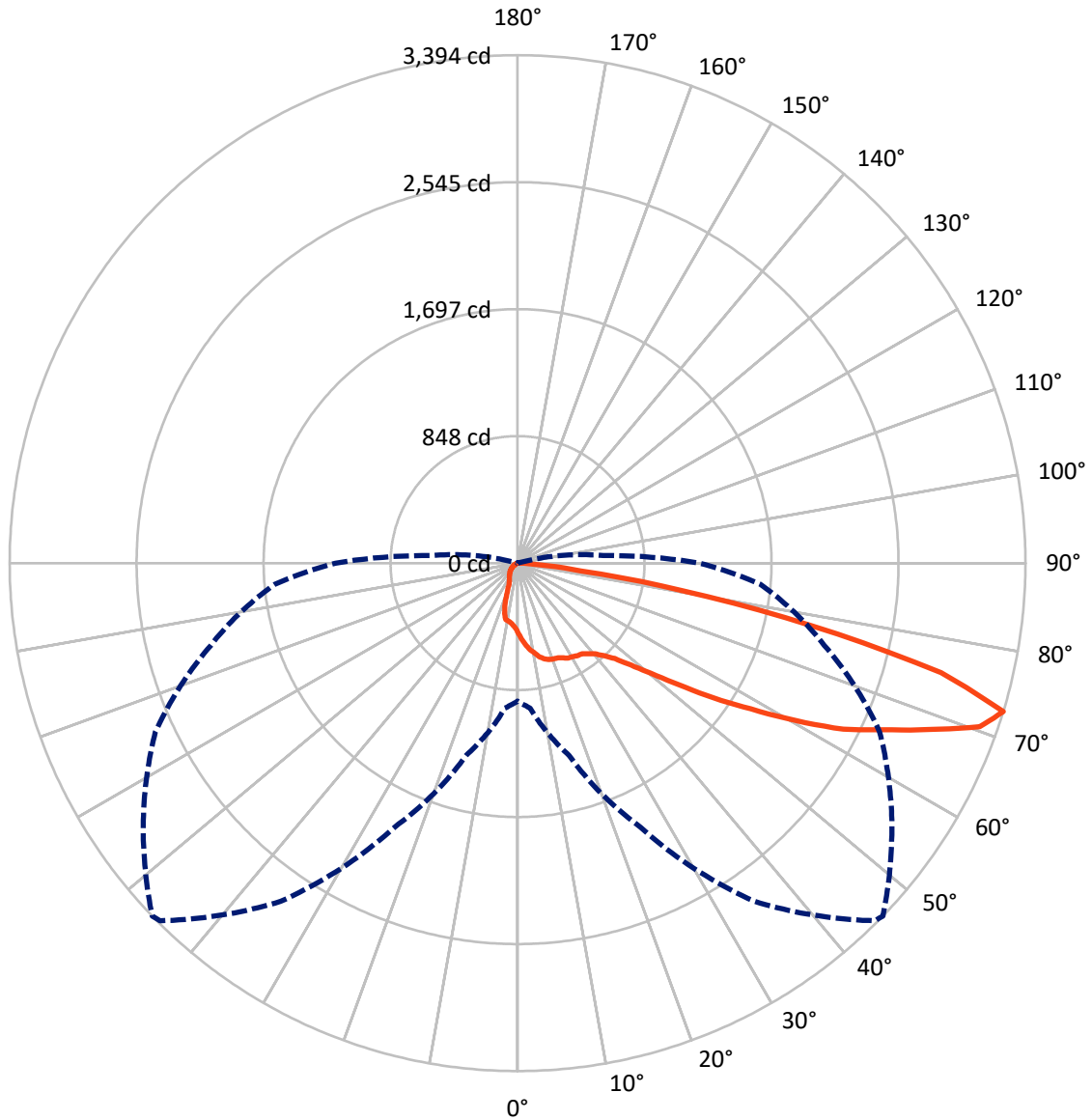
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 3 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 46-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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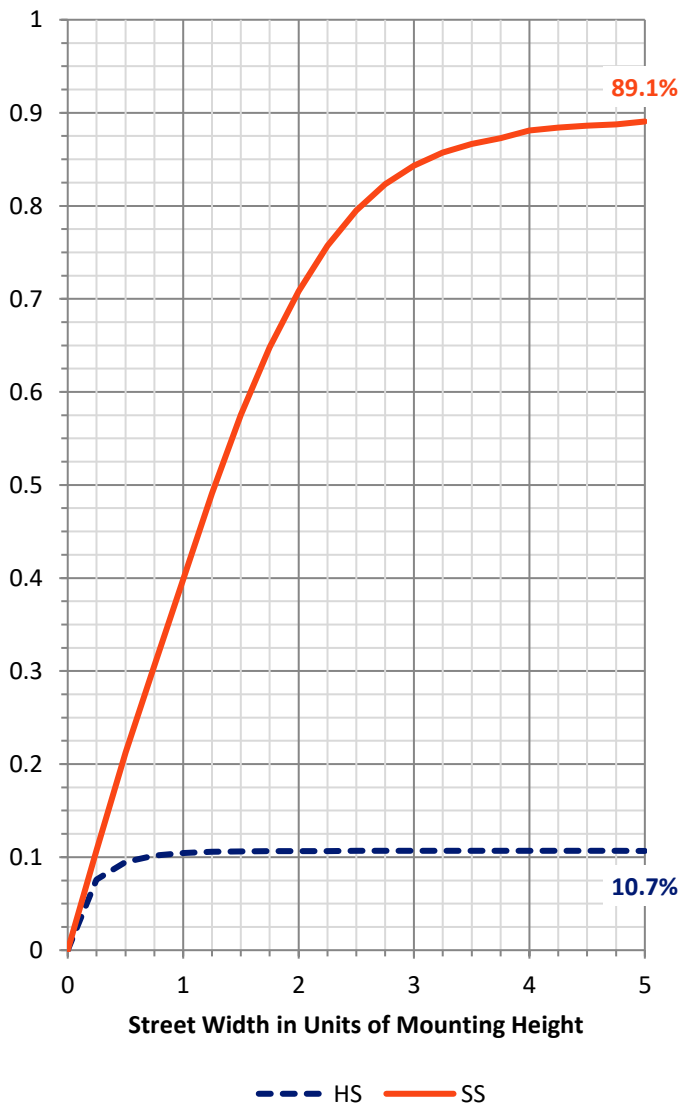
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	468.1	0.0	468.1
	% Fixture	10.8	0.0	10.8
Street Side	Lumens	3879.8	0.0	3879.8
	% Fixture	89.2	0.0	89.2
Total	Lumens	4347.9	0.0	4347.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	46.5	1.1
10°-20°	140.4	3.2
20°-30°	219.8	5.1
30°-40°	307.8	7.1
40°-50°	507.6	11.7
50°-60°	912.4	21.0
60°-70°	1322.5	30.4
70°-80°	825.3	19.0
80°-90°	65.4	1.5
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°	4347.9	100.0
0°-180°	4347.9	100.0

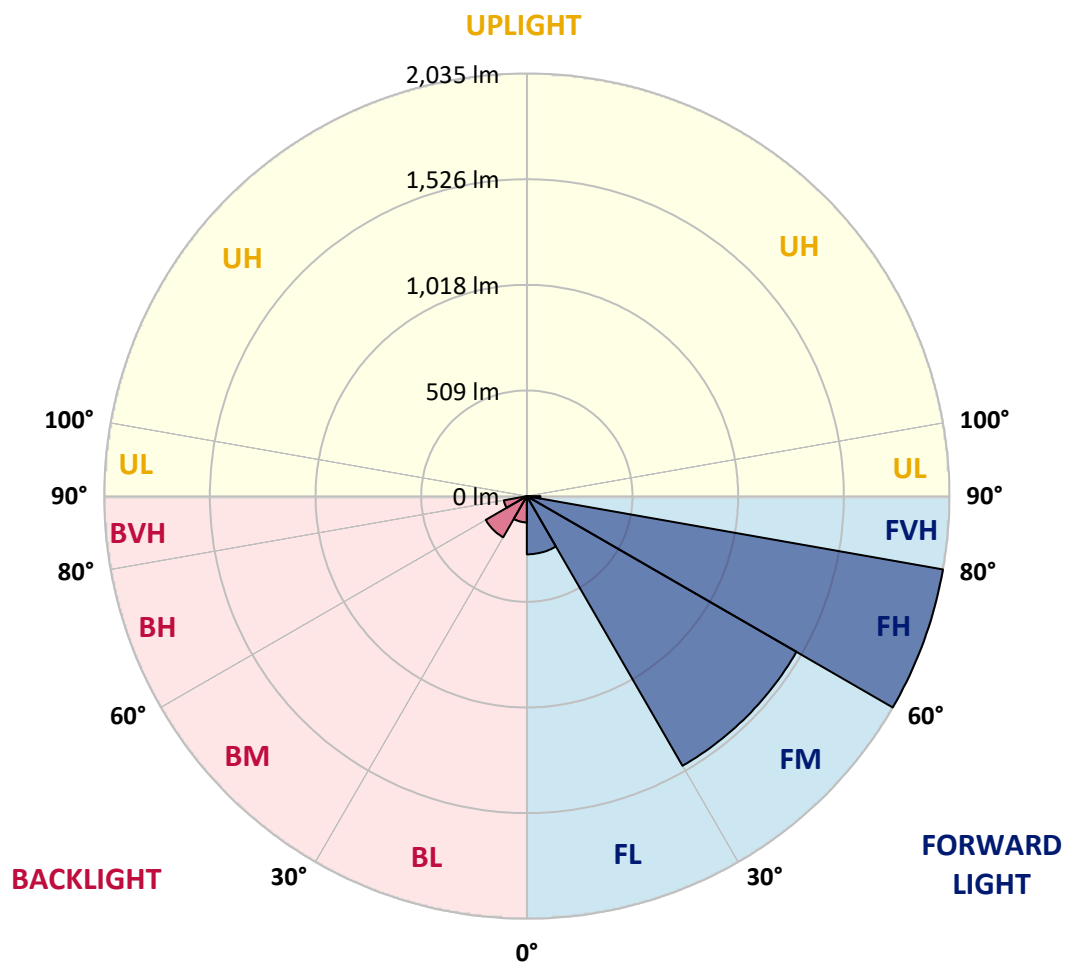


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	280.2	6.4			
FM (30°-60°)	1499.2	34.5			
FH (60°-80°)	2035.2	46.8			G2/5000
FVH (80°-90°)	65.1	1.5			G1/100
BL (0°-30°)	126.5	2.9	B1/500		
BM (30°-60°)	228.7	5.3	B1/1000		
BH (60°-80°)	112.6	2.6	B1/500		G1/500
BVH (80°-90°)	0.4	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 Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	464.7	464.7	464.7	464.7	464.7	464.7	464.7	464.7	464.7	464.7	464.7
2.5°	520.1	517.9	521.2	520.1	506.8	509.0	507.9	499.1	483.5	474.7	469.1
5°	580.0	585.6	581.1	571.2	563.4	547.9	545.6	531.2	506.8	491.3	474.7
7.5°	642.1	642.1	633.3	617.7	601.1	584.5	582.2	557.8	536.8	510.2	486.9
10°	688.7	683.2	676.5	659.9	641.0	618.8	607.7	590.0	566.7	534.6	504.6
12.5°	729.7	720.9	709.8	685.4	663.2	638.8	641.0	612.2	596.7	567.8	523.5
15°	753.0	745.3	735.3	713.1	678.7	667.6	663.2	645.5	617.7	588.9	546.8
17.5°	758.6	753.0	739.7	710.9	692.0	678.7	677.6	656.5	644.3	619.9	573.4
20°	747.5	737.5	727.5	708.7	690.9	686.5	683.2	683.2	667.6	635.5	590.0
22.5°	728.6	717.5	712.0	700.9	686.5	685.4	687.6	685.4	673.2	652.1	607.7
25°	714.2	708.7	699.8	696.5	687.6	704.2	700.9	697.6	694.3	669.9	635.5
27.5°	718.7	717.5	710.9	697.6	690.9	708.7	718.7	719.8	718.7	694.3	661.0
30°	720.9	715.3	708.7	705.3	707.6	725.3	725.3	749.7	739.7	715.3	686.5
32.5°	746.4	743.1	720.9	713.1	714.2	735.3	736.4	760.8	757.5	740.8	708.7
35°	800.7	778.5	746.4	724.2	724.2	751.9	743.1	778.5	787.4	760.8	724.2
37.5°	881.7	865.0	807.4	757.5	738.6	758.6	767.4	787.4	814.0	790.7	755.3
40°	1042.5	1039.2	957.1	849.5	775.2	793.0	796.3	827.3	845.1	812.9	802.9
42.5°	1277.6	1261.0	1184.4	1014.8	841.8	834.0	846.2	866.2	908.3	881.7	857.3
45°	1507.2	1499.4	1422.9	1233.2	962.6	916.1	909.4	944.9	1007.0	978.2	959.3
47.5°	1673.5	1658.0	1614.7	1455.0	1140.1	1012.5	1017.0	1052.5	1131.2	1109.0	1114.6
50°	1801.1	1793.3	1747.8	1660.2	1364.1	1164.5	1155.6	1191.1	1297.6	1312.0	1327.5
52.5°	1940.8	1955.2	1894.2	1819.9	1629.2	1368.5	1348.6	1360.8	1498.3	1531.6	1574.8
55°	2075.0	2098.3	2037.3	2027.3	1906.4	1594.8	1591.5	1562.6	1740.1	1744.5	1767.8
57.5°	2162.6	2154.8	2150.4	2204.8	2183.7	1854.3	1837.7	1808.8	1969.6	1940.8	2010.7
60°	2169.3	2191.4	2265.8	2399.9	2437.7	2159.3	2134.9	2056.1	2168.2	2099.4	2232.5
62.5°	2219.2	2236.9	2374.4	2559.6	2608.4	2427.7	2444.3	2244.7	2337.8	2283.5	2478.7
65°	2092.7	2148.2	2424.3	2683.9	2832.5	2699.4	2682.7	2487.6	2512.0	2460.9	2721.6
67.5°	1978.5	1999.6	2287.9	2721.6	3009.9	2972.2	2965.5	2702.7	2691.6	2597.4	2790.3
70°	1608.1	1633.6	1918.6	2528.6	3069.8	3290.5	3275.0	3004.4	2813.6	2523.0	2437.7
72.5°	921.6	972.6	1329.7	1947.5	2758.2	3379.2	3393.6	3053.2	2669.4	2121.6	1628.1
75°	301.7	316.1	552.3	1103.5	2062.8	2947.8	2922.3	2624.0	2153.7	1400.7	735.3
77.5°	102.0	104.2	163.0	399.3	1143.4	1991.8	2006.2	1875.4	1323.1	582.2	203.0
80°	52.1	55.5	79.9	149.7	470.2	1084.6	1107.9	1069.1	554.5	171.9	48.8
82.5°	24.4	25.5	46.6	83.2	215.2	425.9	425.9	468.0	196.3	96.5	20.0
85°	8.9	8.9	24.4	47.7	90.9	142.0	143.1	144.2	103.1	72.1	8.9
87.5°	3.3	3.3	12.2	20.0	33.3	43.3	43.3	34.4	52.1	47.7	3.3
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°	464.7	464.7	464.7	464.7	464.7	464.7	464.7	464.7	464.7	464.7	464.7
2.5°	466.9	460.2	454.7	446.9	437.0	431.4	432.5	425.9	425.9	422.5	421.4
5°	466.9	460.2	445.8	432.5	423.6	412.6	407.0	402.6	402.6	400.4	401.5
7.5°	470.2	460.2	440.3	422.5	408.1	397.0	388.2	387.1	384.8	379.3	383.7
10°	490.2	475.8	442.5	418.1	401.5	389.3	373.7	369.3	362.7	352.7	353.8
12.5°	506.8	488.0	458.0	424.8	403.7	383.7	348.2	309.4	292.8	275.0	276.1
15°	531.2	504.6	463.6	433.6	403.7	339.4	275.0	225.1	198.5	185.2	185.2
17.5°	544.5	522.4	479.1	439.2	371.5	276.1	195.2	151.9	147.5	149.7	149.7
20°	572.3	542.3	496.8	443.6	318.3	196.3	143.1	138.6	140.8	145.3	144.2
22.5°	590.0	560.1	510.2	423.6	246.2	140.8	134.2	132.0	134.2	139.7	139.7
25°	604.4	585.6	531.2	374.9	174.1	127.5	125.3	127.5	129.8	132.0	135.3
27.5°	639.9	607.7	545.6	311.6	125.3	118.7	120.9	122.0	122.0	125.3	126.4
30°	663.2	637.7	556.7	240.7	110.9	109.8	112.0	113.1	114.2	117.6	118.7
32.5°	685.4	676.5	542.3	163.0	104.2	102.0	100.9	102.0	106.5	109.8	108.7
35°	717.5	712.0	521.2	113.1	97.6	93.2	90.9	92.0	95.4	98.7	97.6
37.5°	756.4	761.9	470.2	98.7	90.9	85.4	81.0	81.0	82.1	85.4	86.5
40°	801.8	816.2	410.3	92.0	86.5	79.9	75.4	69.9	68.8	67.7	68.8
42.5°	885.0	901.6	342.7	87.6	79.9	72.1	65.4	58.8	53.2	49.9	49.9
45°	1001.5	988.1	254.0	83.2	76.5	65.4	55.5	47.7	39.9	36.6	36.6
47.5°	1162.3	1116.8	174.1	78.7	71.0	57.7	46.6	36.6	29.9	26.6	26.6
50°	1385.2	1235.5	113.1	74.3	67.7	49.9	37.7	26.6	22.2	21.1	22.2
52.5°	1595.9	1356.3	89.8	68.8	61.0	43.3	28.8	22.2	20.0	18.9	18.9
55°	1790.0	1417.3	79.9	63.2	55.5	35.5	24.4	18.9	17.7	16.6	16.6
57.5°	1954.1	1438.4	68.8	55.5	44.4	27.7	20.0	16.6	14.4	13.3	13.3
60°	2096.1	1444.0	53.2	44.4	32.2	21.1	16.6	14.4	12.2	10.0	10.0
62.5°	2209.2	1405.1	37.7	31.1	22.2	16.6	14.4	10.0	6.7	4.4	3.3
65°	2299.0	1327.5	25.5	21.1	14.4	12.2	8.9	4.4	1.1	0.0	0.0
67.5°	2193.7	1151.2	20.0	15.5	10.0	7.8	4.4	1.1	0.0	0.0	0.0
70°	1788.9	892.8	14.4	10.0	6.7	2.2	1.1	0.0	0.0	0.0	0.0
72.5°	1217.7	575.6	11.1	6.7	3.3	1.1	0.0	0.0	0.0	0.0	0.0
75°	546.8	206.3	7.8	4.4	1.1	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	133.1	48.8	5.5	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	35.5	12.2	3.3	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	13.3	4.4	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	5.5	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.2	1.1	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)