

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: P675460

Luminaire Tested: **CCW-SA-2A-830-U-SL2**

Issue Date: 04/25/2023

Test Information

Test Method: LM-79-08
Report Number: P675460
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-2A-830-U-SL2
Description: INVUE CLEAR CURVE Wall Pack MOUNT LIGHT SQUARE LUMINAIRE @350mA w/
SL2 distribution lens
Light Source: (32) 3000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

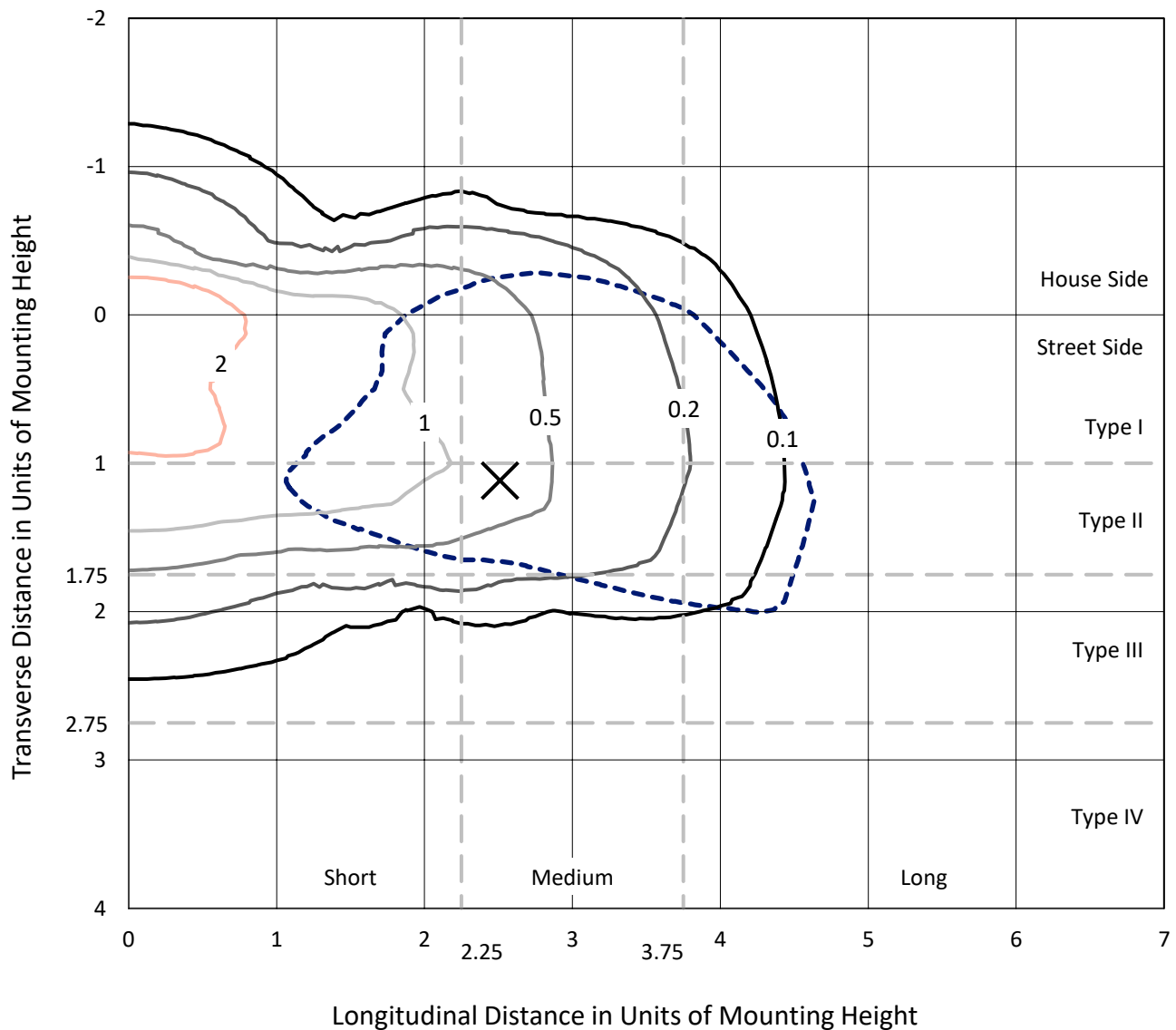
Lumens per Lamp: N/A
Luminaire Lumens: 4302.9 lumens
Efficiency: N/A
Efficacy: 118.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

Input Watts (W): 36.2
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

REPORT NUMBER: P675460
 CATALOG NUMBER: CCW-SA-2A-830-U-SL2

Iso-Footcandle Lines of Horizontal Illumination

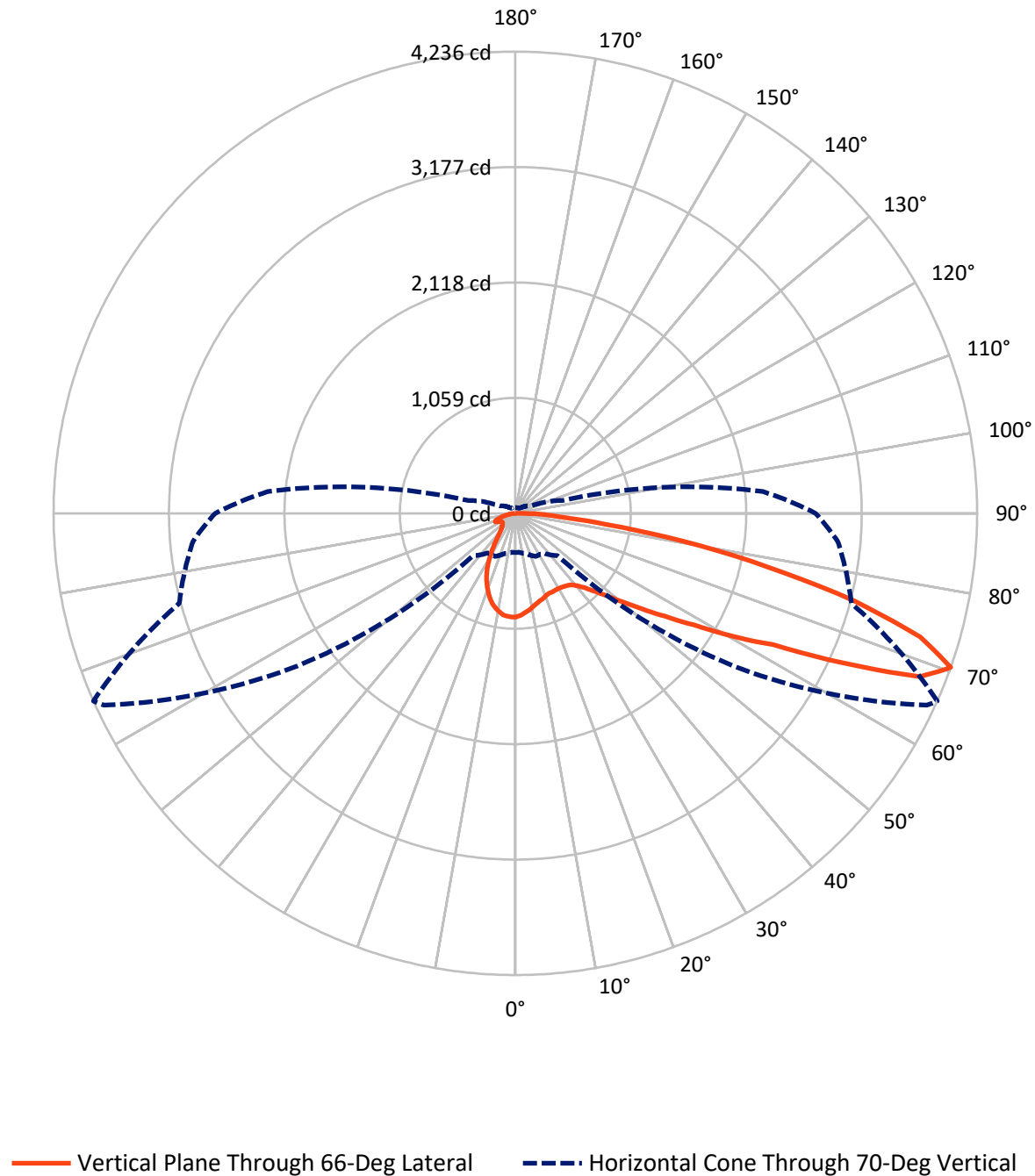
× Max cd
 --- 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 4.2 fc
 Type III - Medium - N/A

REPORT NUMBER: P675460
CATALOG NUMBER: CCW-SA-2A-830-U-SL2

Luminous Intensity Polar Plot



REPORT NUMBER: P675460

CATALOG NUMBER: CCW-SA-2A-830-U-SL2

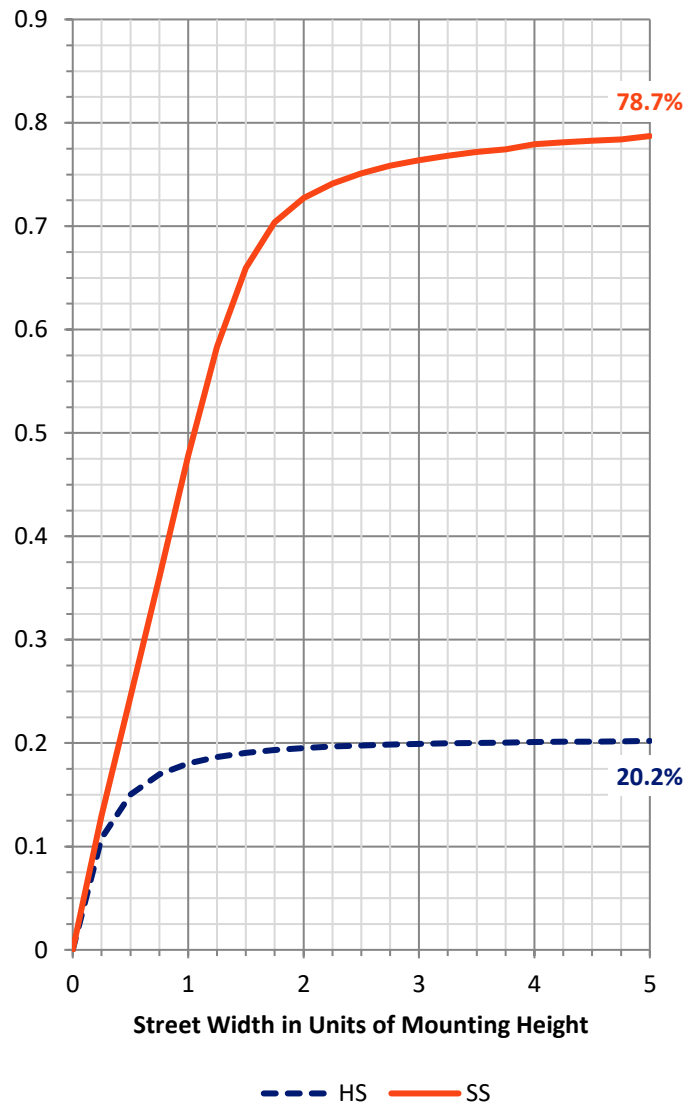
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	880.7	0.0	880.7
	% Fixture	20.5	0.0	20.5
Street Side	Lumens	3422.2	0.0	3422.2
	% Fixture	79.5	0.0	79.5
Total	Lumens	4302.9	0.0	4302.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	84.1	2.0
10°-20°	206.9	4.8
20°-30°	284.2	6.6
30°-40°	381.0	8.9
40°-50°	552.8	12.8
50°-60°	840.3	19.5
60°-70°	1037.8	24.1
70°-80°	771.8	17.9
80°-90°	143.9	3.3
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°	4302.9	100.0
0°-180°	4302.9	100.0

Coefficient of Utilization



REPORT NUMBER: P675460

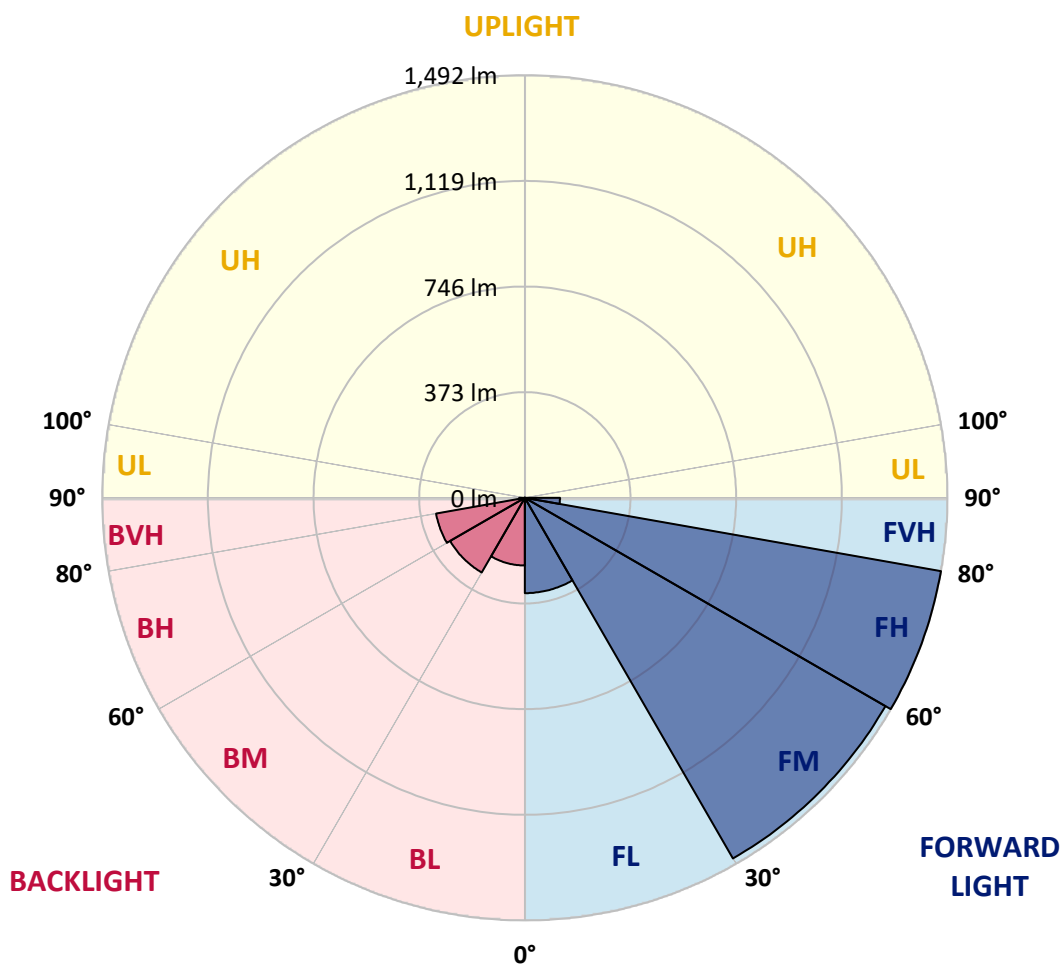
CATALOG NUMBER: CCW-SA-2A-830-U-SL2

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	336.5	7.8			
FM	(30°-60°)	1469.9	34.2			
FH	(60°-80°)	1491.7	34.7			G1/1800
FVH	(80°-90°)	124.1	2.9			G2/225
BL	(0°-30°)	238.7	5.5	B1/500		
BM	(30°-60°)	304.2	7.1	B1/1000		
BH	(60°-80°)	317.9	7.4	B1/500		G1/500
BVH	(80°-90°)	19.9	0.5			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type III Medium



REPORT NUMBER: P675460

CATALOG NUMBER: CCW-SA-2A-830-U-SL2

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	950.7	950.7	950.7	950.7	950.7	950.7	950.7	950.7	950.7	950.7	950.7
2.5°	904.2	909.0	910.6	913.8	921.8	928.2	937.8	942.6	937.8	944.2	944.2
5°	841.8	835.4	851.4	857.8	867.4	880.2	902.6	920.2	915.4	934.6	950.7
7.5°	789.0	789.0	793.8	808.2	819.4	838.6	862.6	889.8	897.8	923.4	947.4
10°	741.0	747.4	747.4	769.8	776.2	798.6	838.6	872.2	873.8	917.0	950.7
12.5°	715.4	712.2	728.2	734.6	753.8	776.2	808.2	849.8	851.4	897.8	944.2
15°	694.6	697.8	705.8	721.8	739.4	757.0	787.4	825.8	833.8	888.2	941.0
17.5°	696.2	697.8	697.8	709.0	723.4	744.2	773.0	817.8	822.6	875.4	936.2
20°	705.8	699.4	704.2	709.0	718.6	737.8	761.8	800.2	805.0	873.8	947.4
22.5°	726.6	721.8	720.2	718.6	717.0	728.2	758.6	790.6	795.4	865.8	952.3
25°	760.2	758.6	747.4	736.2	728.2	728.2	752.2	798.6	797.0	865.8	955.5
27.5°	800.2	800.2	798.6	777.8	753.8	741.0	757.0	795.4	793.8	865.8	963.5
30°	854.6	854.6	849.8	830.6	787.4	750.6	760.2	792.2	797.0	859.4	957.1
32.5°	913.8	912.2	917.0	899.4	854.6	795.4	779.4	798.6	803.4	865.8	958.7
35°	957.1	966.7	982.7	966.7	921.8	841.8	806.6	811.4	814.6	867.4	965.1
37.5°	1006.7	1017.9	1040.3	1053.1	1005.1	912.2	849.8	832.2	832.2	888.2	966.7
40°	1078.7	1067.5	1105.9	1128.3	1109.1	998.7	917.0	870.6	872.2	915.4	987.5
42.5°	1131.5	1142.7	1182.7	1222.7	1198.7	1104.3	990.7	933.0	933.0	955.5	1019.5
45°	1190.7	1203.5	1259.5	1307.5	1325.1	1230.7	1091.5	1022.7	1019.5	1033.9	1077.1
47.5°	1256.3	1273.9	1338.0	1394.0	1440.4	1362.0	1221.1	1131.5	1129.9	1141.1	1173.1
50°	1331.6	1338.0	1390.8	1493.2	1586.0	1536.4	1379.6	1285.1	1277.1	1281.9	1325.1
52.5°	1354.0	1349.2	1410.0	1520.4	1690.0	1749.3	1595.6	1459.6	1456.4	1445.2	1501.2
55°	1272.3	1288.3	1347.6	1488.4	1774.9	2000.5	1832.5	1698.0	1669.2	1638.8	1706.0
57.5°	1109.1	1110.7	1177.9	1344.4	1709.2	2208.6	2234.2	1931.7	1933.3	1851.7	1928.5
60°	862.6	857.8	910.6	1061.1	1522.0	2272.6	2672.7	2304.6	2288.6	2064.5	2135.0
62.5°	622.6	613.0	624.2	712.2	1137.9	2175.0	3103.2	2722.3	2655.1	2282.2	2336.6
65°	512.1	516.9	521.7	526.5	638.6	1794.1	3236.1	3404.1	3314.5	2536.7	2559.1
67.5°	424.1	427.3	448.1	476.9	473.7	1059.5	3082.4	4034.7	4001.1	2852.0	2751.1
70°	360.1	358.5	382.5	435.3	443.3	550.5	2440.6	4164.3	4236.3	3191.2	2968.8
72.5°	288.1	291.3	312.1	382.5	435.3	464.1	1405.2	3885.8	3884.2	3452.1	2852.0
75°	206.5	206.5	235.3	316.9	420.9	459.3	777.8	3154.4	3213.6	3244.1	2474.3
77.5°	136.0	142.4	164.8	236.9	395.3	449.7	492.9	2293.4	2367.0	2426.2	1893.3
80°	92.8	96.0	110.4	164.8	334.5	452.9	403.3	1542.8	1571.6	1339.6	768.2
82.5°	56.0	57.6	73.6	115.2	240.1	430.5	379.3	851.4	833.8	404.9	220.9
85°	30.4	32.0	46.4	76.8	158.4	376.1	372.9	417.7	388.9	148.8	92.8
87.5°	11.2	11.2	20.8	38.4	91.2	257.7	324.9	248.1	232.1	75.2	43.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P675460

CATALOG NUMBER: CCW-SA-2A-830-U-SL2

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	950.7	950.7	950.7	950.7	950.7	950.7	950.7	950.7	950.7	950.7	950.7
2.5°	952.3	952.3	952.3	952.3	950.7	944.2	949.0	947.4	937.8	939.4	933.0
5°	949.0	957.1	952.3	945.8	937.8	918.6	912.2	907.4	894.6	889.8	894.6
7.5°	957.1	950.7	947.4	936.2	904.2	886.6	864.2	837.0	817.8	813.0	817.8
10°	955.5	955.5	941.0	909.0	878.6	827.4	798.6	750.6	723.4	715.4	717.0
12.5°	949.0	953.9	931.4	880.2	822.6	760.2	707.4	656.2	608.2	589.0	585.8
15°	955.5	950.7	910.6	845.0	765.0	678.6	601.8	526.5	481.7	452.9	446.5
17.5°	945.8	941.0	883.4	797.0	689.8	579.4	483.3	401.7	356.9	345.7	345.7
20°	957.1	926.6	851.4	739.4	611.4	470.5	361.7	300.9	289.7	289.7	292.9
22.5°	955.5	923.4	824.2	683.4	516.9	355.3	268.9	251.3	252.9	265.7	264.1
25°	945.8	917.0	785.8	621.0	417.7	267.3	222.5	217.7	228.9	243.3	241.7
27.5°	944.2	899.4	750.6	547.3	318.5	211.3	193.7	193.7	204.9	217.7	216.1
30°	934.6	885.0	707.4	464.1	240.1	184.0	177.6	177.6	182.4	188.8	188.8
32.5°	933.0	865.8	659.4	377.7	192.1	166.4	163.2	164.8	164.8	168.0	166.4
35°	920.2	840.2	609.8	292.9	166.4	156.8	153.6	152.0	152.0	150.4	150.4
37.5°	915.4	824.2	558.5	227.3	155.2	148.8	145.6	140.8	139.2	139.2	137.6
40°	920.2	808.2	508.9	184.0	145.6	142.4	137.6	131.2	129.6	129.6	129.6
42.5°	937.8	806.6	457.7	160.0	140.8	136.0	129.6	123.2	121.6	123.2	121.6
45°	977.9	819.4	408.1	148.8	134.4	129.6	121.6	116.8	115.2	116.8	116.8
47.5°	1043.5	854.6	363.3	142.4	129.6	123.2	115.2	110.4	110.4	110.4	110.4
50°	1152.3	921.8	320.1	137.6	126.4	118.4	110.4	104.0	102.4	102.4	104.0
52.5°	1315.5	1037.1	284.9	134.4	121.6	112.0	104.0	99.2	96.0	94.4	96.0
55°	1512.4	1205.1	273.7	131.2	115.2	107.2	99.2	92.8	89.6	89.6	88.0
57.5°	1723.7	1390.8	292.9	128.0	110.4	100.8	92.8	86.4	83.2	81.6	81.6
60°	1952.5	1610.0	363.3	126.4	105.6	94.4	86.4	81.6	76.8	75.2	75.2
62.5°	2160.6	1808.5	489.7	124.8	102.4	88.0	80.0	73.6	70.4	68.8	68.8
65°	2397.4	2029.3	613.0	131.2	100.8	83.2	73.6	67.2	64.0	62.4	62.4
67.5°	2603.9	2221.4	685.0	147.2	105.6	76.8	65.6	60.8	59.2	57.6	57.6
70°	2754.3	2280.6	459.3	161.6	113.6	72.0	59.2	56.0	52.8	52.8	52.8
72.5°	2552.7	2035.7	272.1	152.0	107.2	67.2	52.8	49.6	48.0	48.0	46.4
75°	2183.0	1733.3	209.7	123.2	86.4	57.6	46.4	43.2	41.6	41.6	40.0
77.5°	1611.6	1241.9	155.2	97.6	67.2	46.4	40.0	38.4	36.8	35.2	35.2
80°	630.6	544.1	105.6	72.0	49.6	36.8	33.6	32.0	30.4	28.8	28.8
82.5°	195.3	164.8	60.8	48.0	35.2	28.8	27.2	25.6	24.0	22.4	22.4
85°	84.8	81.6	40.0	30.4	24.0	19.2	19.2	17.6	16.0	14.4	14.4
87.5°	41.6	40.0	22.4	14.4	12.8	9.6	9.6	8.0	6.4	6.4	6.4
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)