

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: P675776

Luminaire Tested: **CCW-SA-1B-850-U-SL4**

Issue Date: 04/25/2023

Test Information

Test Method: LM-79-08
Report Number: P675776
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-1B-850-U-SL4
Description: INVUE CLEAR CURVE Wall Pack MOUNT LIGHT SQUARE LUMINAIRE @450mA w/
SL4 distribution lens
Light Source: (16) 5000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

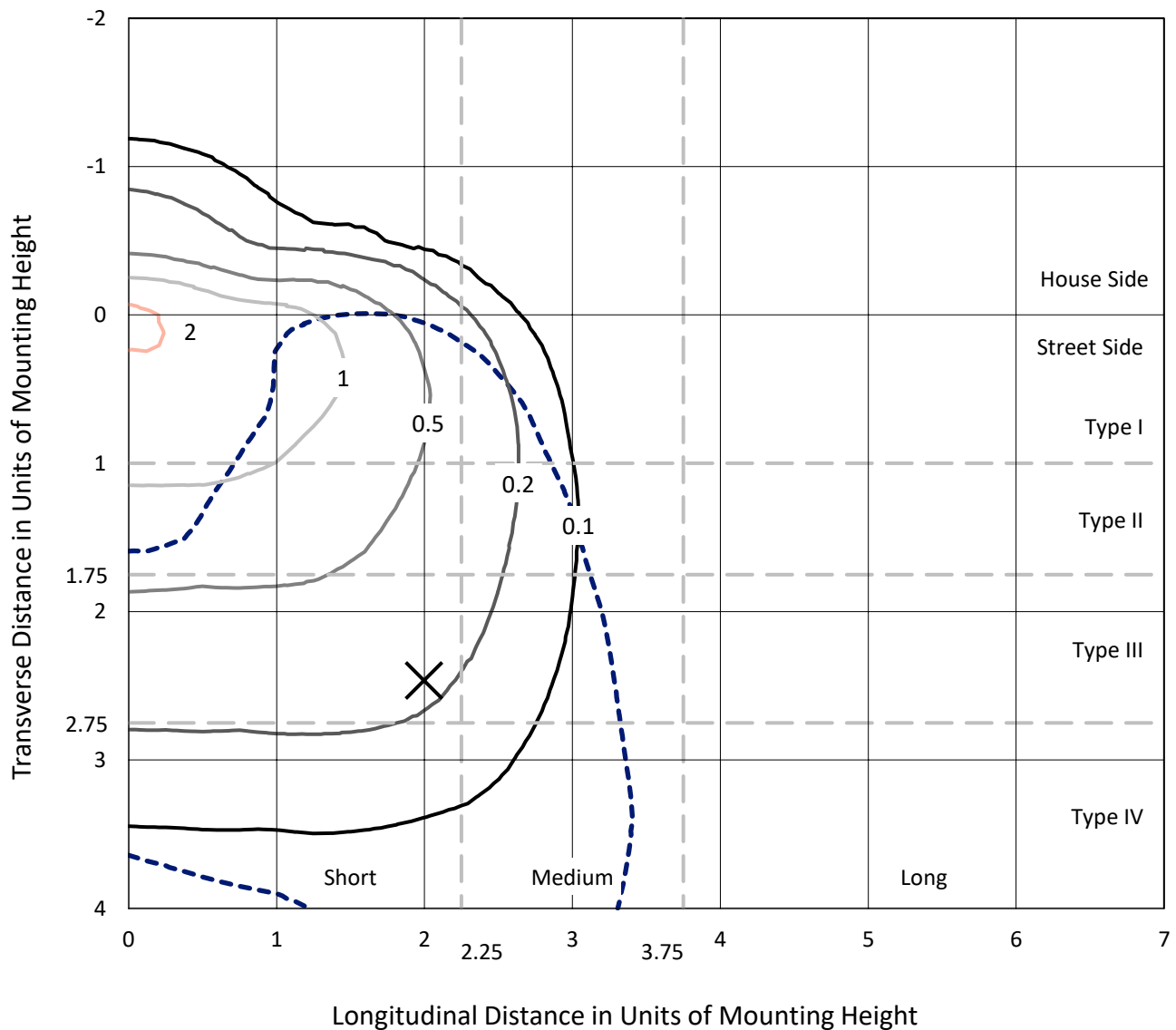
Lumens per Lamp: N/A
Luminaire Lumens: 2953.1 lumens
Efficiency: N/A
Efficacy: 123.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G1

Input Watts (W): 24
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: P675776
 CATALOG NUMBER: CCW-SA-1B-850-U-SL4

Iso-Footcandle Lines of Horizontal Illumination

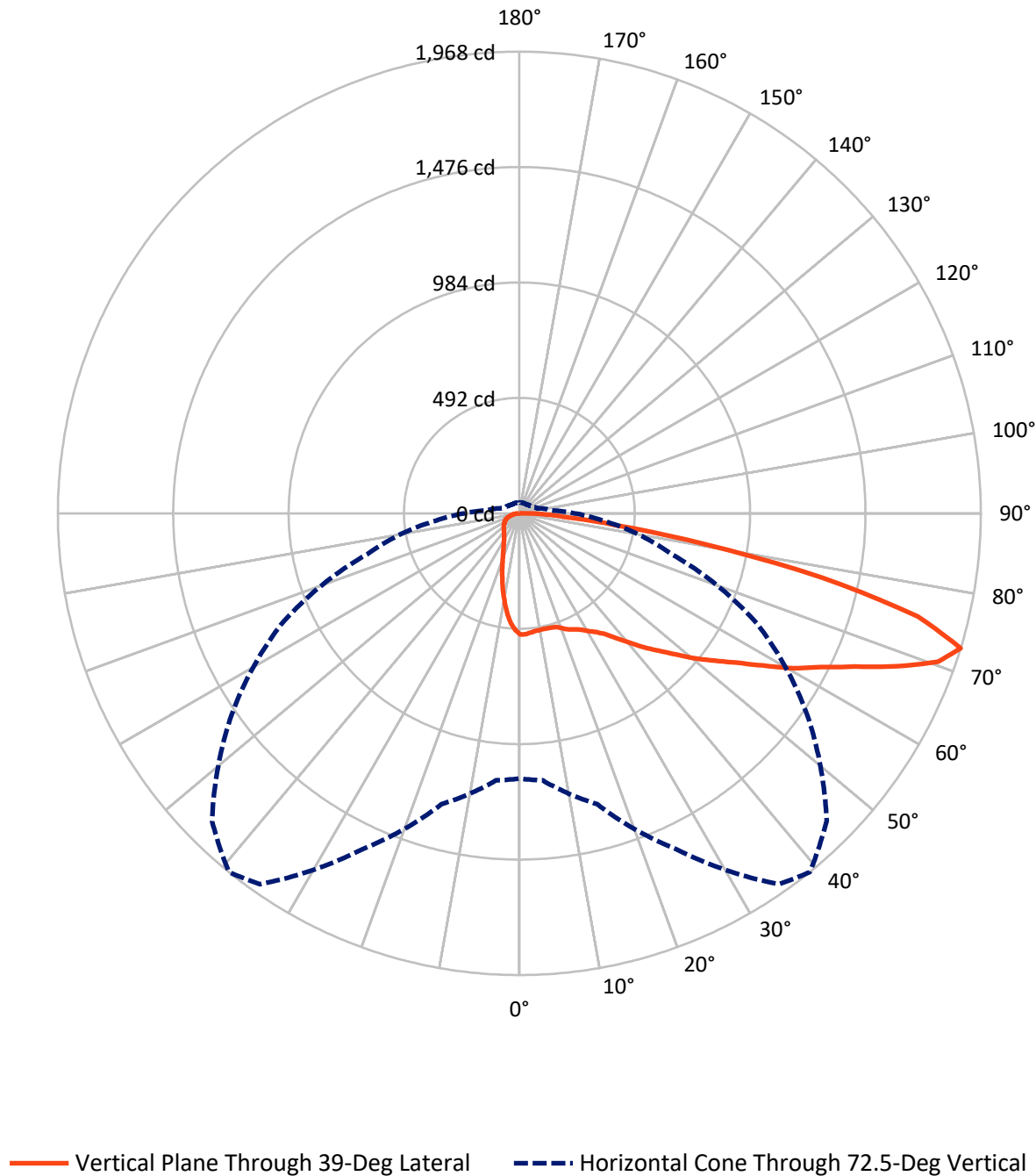
✕ Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 2.3 fc
 Type IV - Short - N/A

REPORT NUMBER: P675776
CATALOG NUMBER: CCW-SA-1B-850-U-SL4

Luminous Intensity Polar Plot



REPORT NUMBER: P675776

CATALOG NUMBER: CCW-SA-1B-850-U-SL4

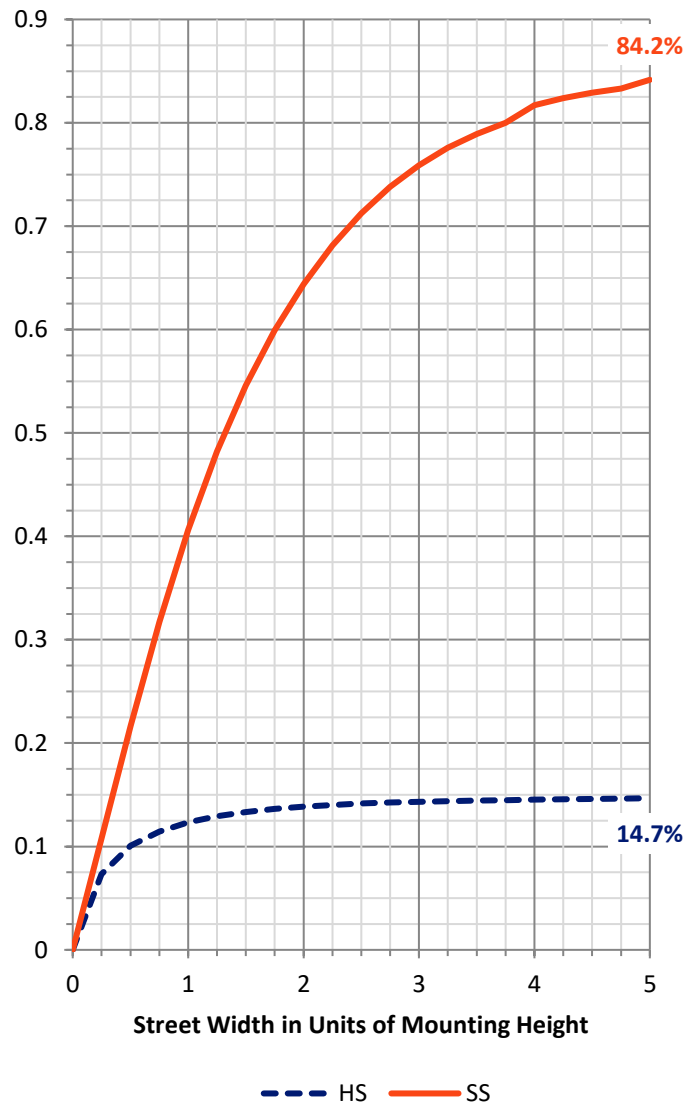
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	438.9	0.0	438.9
	% Fixture	14.9	0.0	14.9
Street Side	Lumens	2514.2	0.0	2514.2
	% Fixture	85.1	0.0	85.1
Total	Lumens	2953.1	0.0	2953.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	45.7	1.5
10°-20°	116.6	3.9
20°-30°	177.6	6.0
30°-40°	259.8	8.8
40°-50°	397.8	13.5
50°-60°	583.4	19.8
60°-70°	744.0	25.2
70°-80°	537.6	18.2
80°-90°	90.7	3.1
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°	2953.1	100.0
0°-180°	2953.1	100.0

Coefficient of Utilization



REPORT NUMBER: P675776

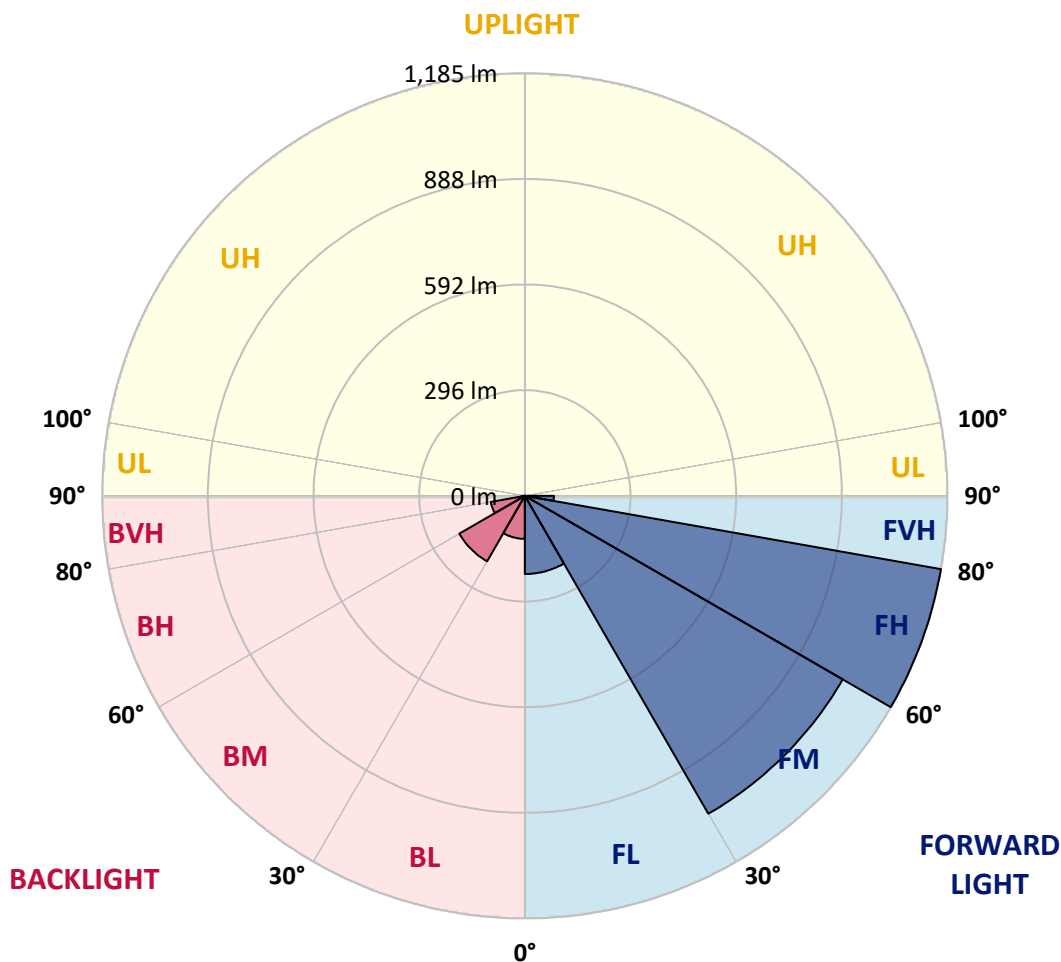
CATALOG NUMBER: CCW-SA-1B-850-U-SL4

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	219.2	7.4			
FM	(30°-60°)	1028.9	34.8			
FH	(60°-80°)	1184.6	40.1			G1/1800
FVH	(80°-90°)	81.5	2.8			G1/100
BL	(0°-30°)	120.7	4.1	B1/500		
BM	(30°-60°)	212.0	7.2	B0/220		
BH	(60°-80°)	97.0	3.3	B0/110		G0/110
BVH	(80°-90°)	9.2	0.3			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 IV Short





REPORT NUMBER: P675776

CATALOG NUMBER: CCW-SA-1B-850-U-SL4

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	516.9	516.9	516.9	516.9	516.9	516.9	516.9	516.9	516.9	516.9	516.9
2.5°	524.7	525.8	523.6	521.4	520.3	515.8	520.3	518.0	515.8	515.8	515.8
5°	518.0	519.1	519.1	516.9	518.0	510.3	509.2	510.3	506.9	504.7	503.6
7.5°	508.0	510.3	514.7	513.6	509.2	505.8	506.9	505.8	500.3	497.0	488.1
10°	500.3	502.5	504.7	506.9	505.8	504.7	503.6	499.2	498.1	490.3	481.4
12.5°	492.5	492.5	493.6	502.5	503.6	503.6	497.0	497.0	493.6	492.5	479.2
15°	484.8	488.1	497.0	499.2	503.6	505.8	502.5	502.5	497.0	489.2	479.2
17.5°	487.0	492.5	501.4	506.9	509.2	509.2	513.6	510.3	502.5	498.1	488.1
20°	498.1	499.2	510.3	520.3	522.5	522.5	518.0	514.7	509.2	501.4	488.1
22.5°	504.7	512.5	525.8	531.3	538.0	538.0	532.5	524.7	516.9	509.2	494.7
25°	533.6	534.7	540.2	549.1	552.4	548.0	542.4	533.6	523.6	515.8	502.5
27.5°	553.5	559.1	565.7	570.2	564.6	561.3	556.9	546.9	539.1	532.5	513.6
30°	590.1	583.5	587.9	590.1	580.2	582.4	570.2	561.3	552.4	552.4	531.3
32.5°	612.3	617.9	613.4	612.3	604.6	603.4	595.7	585.7	580.2	586.8	558.0
35°	651.1	647.8	647.8	646.7	637.8	632.3	632.3	614.5	620.1	634.5	599.0
37.5°	671.1	670.0	676.7	682.2	673.3	676.7	673.3	665.6	667.8	693.3	650.0
40°	691.1	698.8	712.2	714.4	719.9	724.4	722.1	721.0	729.9	770.9	718.8
42.5°	709.9	716.6	736.6	754.3	767.6	782.0	783.2	783.2	812.0	870.8	802.0
45°	734.3	739.9	767.6	803.1	825.3	835.3	844.2	854.1	893.0	962.9	890.8
47.5°	767.6	772.1	805.3	849.7	893.0	898.5	916.3	927.4	986.1	1057.1	981.7
50°	815.3	812.0	838.6	903.0	945.1	971.7	997.2	1017.2	1074.9	1152.5	1052.7
52.5°	854.1	854.1	874.1	959.5	1017.2	1042.7	1069.3	1097.1	1163.6	1247.9	1110.4
55°	920.7	914.0	926.2	1015.0	1098.2	1122.6	1173.6	1196.9	1261.2	1318.9	1159.2
57.5°	966.2	969.5	983.9	1088.2	1193.6	1223.5	1274.6	1291.2	1347.8	1393.3	1194.7
60°	1026.1	1015.0	1046.0	1169.2	1299.0	1341.1	1383.3	1393.3	1435.4	1441.0	1211.3
62.5°	1083.8	1081.5	1108.2	1250.2	1412.1	1442.1	1485.3	1496.4	1514.2	1478.7	1188.0
65°	1119.3	1133.7	1183.6	1338.9	1540.8	1574.1	1617.3	1595.1	1575.2	1445.4	1073.8
67.5°	1168.1	1174.7	1251.3	1435.4	1689.4	1739.3	1777.1	1689.4	1540.8	1308.9	904.1
70°	1179.2	1196.9	1296.7	1536.4	1842.5	1893.5	1895.8	1657.3	1415.4	1064.9	655.6
72.5°	1130.4	1142.6	1283.4	1578.5	1930.1	1967.9	1853.6	1498.6	1121.5	671.1	357.2
75°	950.7	985.0	1117.0	1448.7	1769.3	1754.9	1570.7	1143.7	673.3	297.3	150.9
77.5°	662.2	663.3	800.9	1053.8	1324.5	1321.2	1120.4	663.3	288.4	119.8	88.7
80°	294.0	315.0	398.2	568.0	804.2	804.2	653.4	329.5	144.2	77.6	61.0
82.5°	173.0	179.7	213.0	265.1	391.6	412.7	312.8	219.6	98.7	48.8	37.7
85°	127.6	138.7	158.6	159.7	185.2	188.6	173.0	190.8	67.7	26.6	31.1
87.5°	95.4	102.1	126.5	105.4	98.7	93.2	106.5	195.2	25.5	13.3	10.0
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: P675776

CATALOG NUMBER: CCW-SA-1B-850-U-SL4

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	516.9	516.9	516.9	516.9	516.9	516.9	516.9	516.9	516.9	516.9	516.9
2.5°	511.4	511.4	509.2	504.7	504.7	495.8	498.1	500.3	494.7	494.7	495.8
5°	503.6	499.2	493.6	487.0	482.5	470.3	468.1	460.4	459.2	457.0	453.7
7.5°	488.1	481.4	471.4	461.5	447.0	435.9	422.6	411.5	407.1	403.8	402.7
10°	473.7	472.6	455.9	435.9	413.8	392.7	372.7	358.3	349.4	343.9	342.8
12.5°	473.7	464.8	441.5	413.8	381.6	350.5	325.0	305.1	292.8	284.0	280.6
15°	471.4	462.6	431.5	389.4	352.8	310.6	275.1	254.0	236.3	227.4	228.5
17.5°	473.7	460.4	417.1	371.6	320.6	275.1	232.9	207.4	189.7	183.0	181.9
20°	474.8	458.1	406.0	347.2	287.3	236.3	196.3	171.9	158.6	154.2	154.2
22.5°	472.6	451.5	389.4	318.4	258.5	204.1	170.8	149.8	140.9	135.3	137.6
25°	482.5	450.4	373.8	294.0	225.2	177.5	152.0	136.4	130.9	127.6	128.7
27.5°	484.8	450.4	361.6	266.2	196.3	157.5	137.6	127.6	123.1	120.9	119.8
30°	493.6	452.6	347.2	238.5	173.0	142.0	126.5	120.9	117.6	116.5	116.5
32.5°	518.0	459.2	331.7	215.2	153.1	128.7	118.7	114.3	112.0	110.9	112.0
35°	546.9	477.0	315.0	190.8	138.7	119.8	112.0	108.7	107.6	107.6	107.6
37.5°	591.2	503.6	300.6	170.8	126.5	110.9	105.4	104.3	103.2	104.3	104.3
40°	642.3	532.5	287.3	155.3	117.6	105.4	99.8	99.8	98.7	99.8	100.9
42.5°	701.1	568.0	274.0	139.8	109.8	100.9	96.5	95.4	94.3	96.5	97.6
45°	782.0	616.8	265.1	130.9	104.3	96.5	92.1	92.1	91.0	91.0	93.2
47.5°	849.7	663.3	265.1	122.0	100.9	93.2	88.7	88.7	86.5	87.6	87.6
50°	906.3	703.3	270.7	119.8	96.5	89.9	86.5	84.3	83.2	83.2	83.2
52.5°	944.0	727.7	275.1	117.6	94.3	85.4	83.2	82.1	79.9	78.8	79.9
55°	981.7	744.3	276.2	117.6	91.0	81.0	78.8	78.8	76.5	75.4	75.4
57.5°	996.1	737.7	260.7	115.4	88.7	77.6	75.4	74.3	73.2	72.1	72.1
60°	989.5	713.3	226.3	109.8	86.5	75.4	71.0	71.0	71.0	68.8	69.9
62.5°	944.0	630.1	181.9	100.9	83.2	71.0	66.6	68.8	68.8	67.7	67.7
65°	824.2	520.3	147.5	93.2	78.8	67.7	63.2	66.6	67.7	66.6	65.4
67.5°	658.9	400.4	122.0	84.3	73.2	62.1	58.8	62.1	63.2	62.1	62.1
70°	452.6	258.5	98.7	75.4	65.4	56.6	53.2	55.5	55.5	56.6	56.6
72.5°	234.1	139.8	81.0	64.3	56.6	51.0	47.7	47.7	46.6	46.6	46.6
75°	116.5	95.4	67.7	54.4	47.7	43.3	41.0	38.8	38.8	38.8	38.8
77.5°	81.0	73.2	55.5	43.3	38.8	35.5	35.5	32.2	32.2	32.2	32.2
80°	61.0	57.7	42.2	33.3	30.0	27.7	27.7	26.6	26.6	25.5	25.5
82.5°	43.3	46.6	32.2	24.4	22.2	21.1	21.1	20.0	20.0	17.7	17.7
85°	34.4	38.8	24.4	17.7	16.6	14.4	14.4	13.3	13.3	12.2	11.1
87.5°	10.0	21.1	10.0	6.7	6.7	6.7	6.7	5.5	5.5	4.4	4.4
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)