

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: P676928

Luminaire Tested: **CCW-SA-1B-850-U-SL2-HSS**

Issue Date: 04/25/2023

Test Information

Test Method: LM-79-08
Report Number: P676928
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-SL2-HSS
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @450mA w/
SL2 distribution lens and House Side Shield
Light Source: (16) 5000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

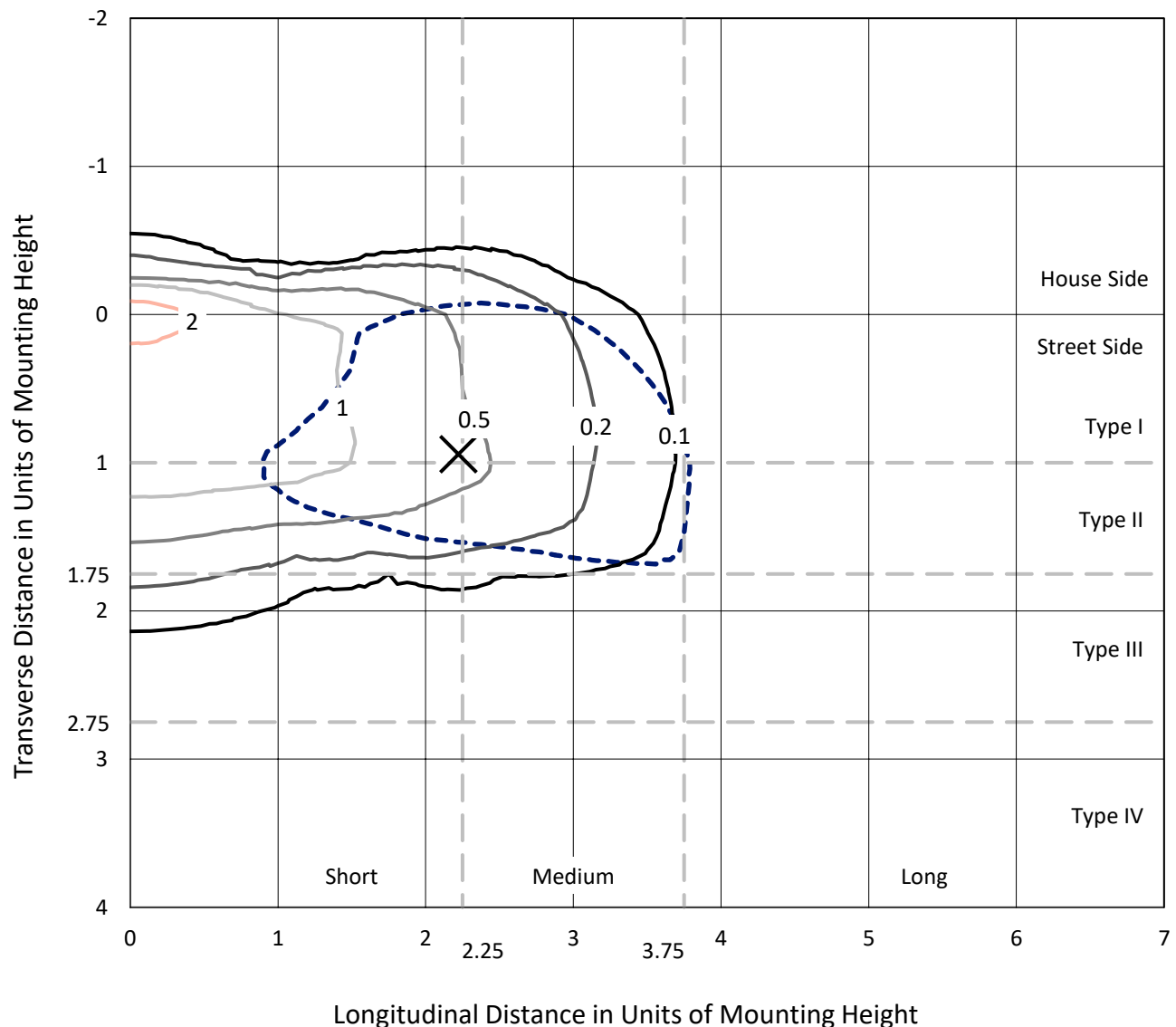
Lumens per Lamp: N/A
Luminaire Lumens: 2423.4 lumens
Efficiency: N/A
Efficacy: 101.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B0 - U0 - G1

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

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Iso-Footcandle Lines of Horizontal Illumination

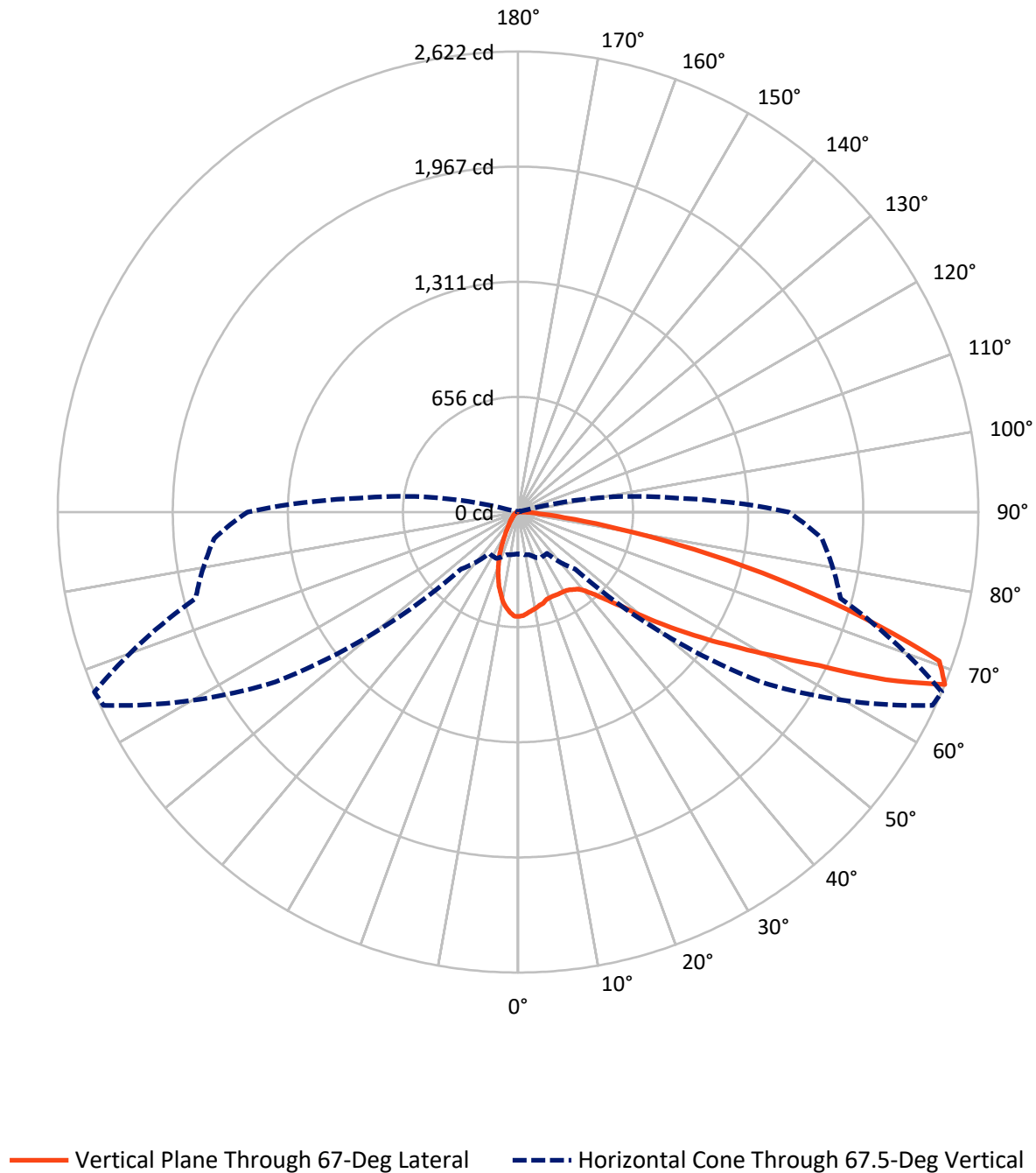
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 2.6 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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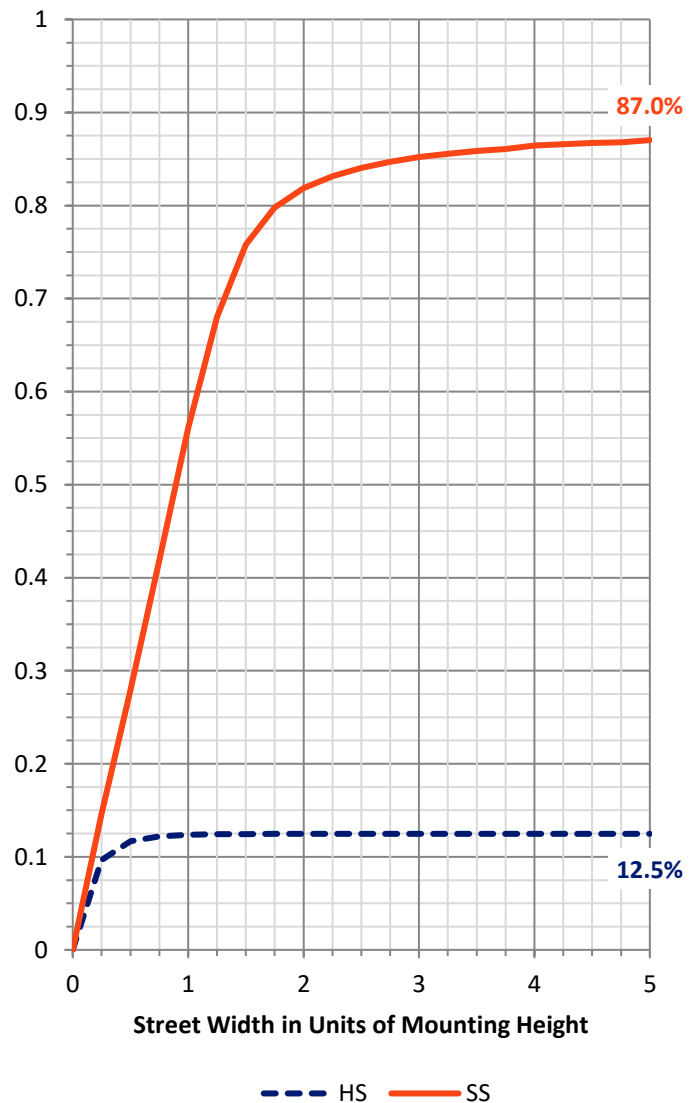
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	305.0	0.0	305.0
	% Fixture	12.6	0.0	12.6
Street Side	Lumens	2118.4	0.0	2118.4
	% Fixture	87.4	0.0	87.4
Total	Lumens	2423.4	0.0	2423.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	50.1	2.1
10°-20°	111.3	4.6
20°-30°	158.2	6.5
30°-40°	230.4	9.5
40°-50°	356.5	14.7
50°-60°	547.2	22.6
60°-70°	593.1	24.5
70°-80°	334.6	13.8
80°-90°	42.0	1.7
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°	2423.4	100.0
0°-180°	2423.4	100.0

Coefficient of Utilization



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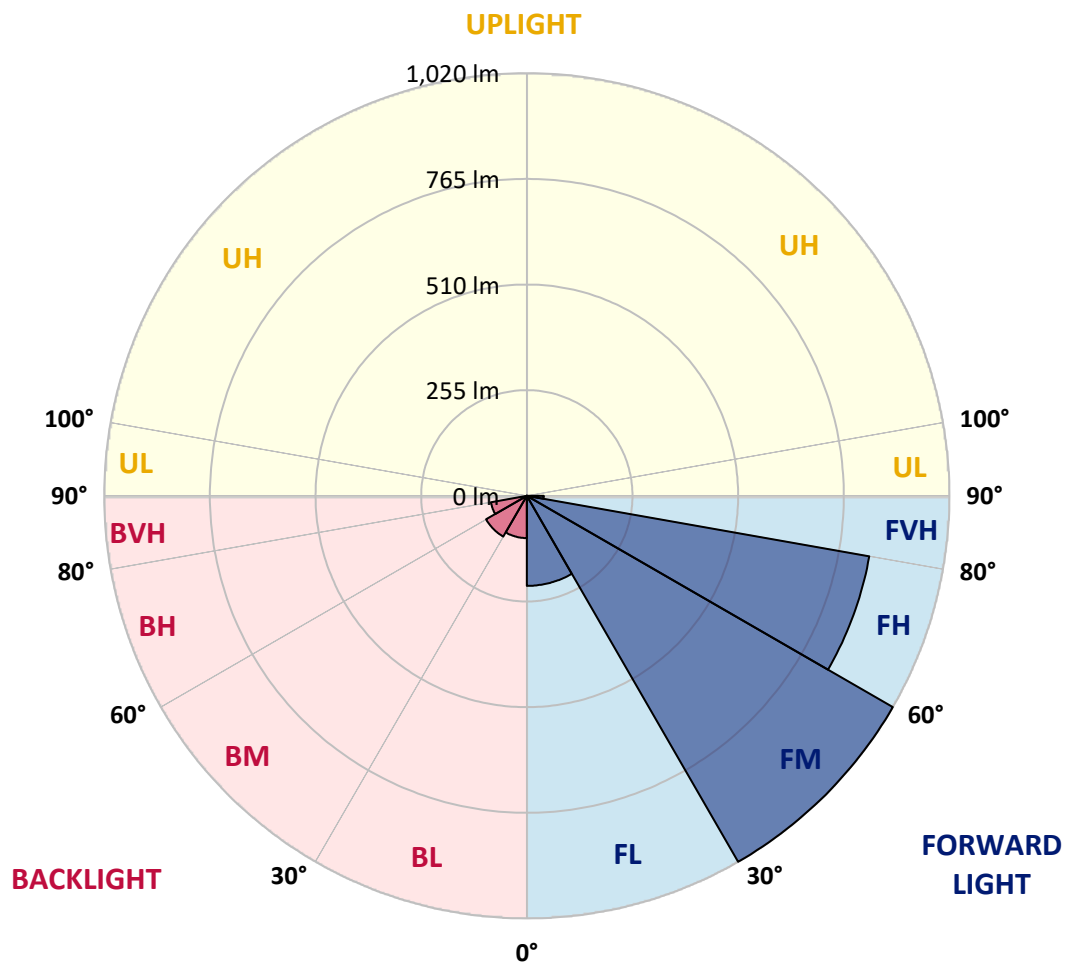
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	217.4	9.0			
FM	(30°-60°)	1020.5	42.1			
FH	(60°-80°)	839.7	34.6			G1/1800
FVH	(80°-90°)	40.8	1.7			G1/100
BL	(0°-30°)	102.1	4.2	B0/110		
BM	(30°-60°)	113.6	4.7	B0/220		
BH	(60°-80°)	88.1	3.6	B0/110		G0/110
BVH	(80°-90°)	1.2	0.1			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G1

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	594.4	594.4	594.4	594.4	594.4	594.4	594.4	594.4	594.4	594.4	594.4
2.5°	568.7	571.6	575.7	581.6	585.7	583.3	585.1	595.0	589.7	594.4	592.1
5°	537.2	540.1	546.0	545.4	550.0	558.8	570.5	583.3	577.5	591.5	596.8
7.5°	504.5	503.3	503.3	515.6	525.5	537.8	544.2	565.2	565.8	578.1	590.9
10°	474.7	478.2	484.1	488.7	498.1	515.6	534.3	550.6	557.0	581.6	585.1
12.5°	456.6	458.4	465.4	469.5	481.7	498.7	518.5	539.5	544.8	569.9	586.8
15°	449.0	453.1	455.4	463.0	469.5	485.2	499.8	523.8	538.9	558.8	579.8
17.5°	454.9	453.1	454.3	456.6	464.2	478.2	494.0	517.9	523.2	556.5	588.0
20°	462.5	463.0	459.5	458.4	456.6	470.0	482.9	513.8	519.7	556.5	593.3
22.5°	482.9	476.5	482.9	473.6	464.2	470.0	482.3	514.4	518.5	555.9	598.5
25°	508.0	509.2	510.9	491.1	477.6	473.6	486.4	516.2	519.7	560.6	600.8
27.5°	543.6	548.9	540.1	530.2	503.3	482.9	485.8	515.0	521.4	558.2	606.7
30°	591.5	587.4	588.6	565.8	539.5	507.4	499.2	517.9	522.6	561.1	617.8
32.5°	633.0	628.3	636.5	628.3	586.8	542.5	515.0	523.8	529.0	568.1	627.1
35°	658.6	664.5	677.3	686.1	651.1	588.0	541.3	539.5	541.9	571.6	634.1
37.5°	698.4	708.9	719.4	741.6	711.2	644.1	582.7	560.0	555.9	588.6	637.6
40°	741.6	738.6	769.6	795.9	794.7	722.9	640.5	596.2	590.3	615.4	661.0
42.5°	777.8	774.8	809.3	852.5	857.2	798.8	706.5	647.6	642.3	656.9	689.6
45°	825.1	827.4	868.3	919.7	936.6	899.2	795.9	721.1	718.2	713.5	743.9
47.5°	867.1	880.0	915.0	975.7	1037.0	1003.2	901.0	828.6	808.1	797.6	828.0
50°	896.3	908.0	950.6	1015.4	1127.5	1149.1	1018.9	943.0	943.6	917.9	934.3
52.5°	896.3	895.7	930.2	1015.4	1190.6	1301.5	1176.6	1087.2	1091.9	1065.1	1066.2
55°	809.9	808.1	850.2	940.7	1183.6	1448.1	1415.4	1270.0	1258.3	1206.4	1211.6
57.5°	652.2	656.3	688.4	797.0	1092.5	1516.4	1699.8	1475.5	1435.8	1328.4	1328.4
60°	475.9	472.4	496.3	572.2	875.3	1490.7	1933.3	1717.9	1655.4	1429.4	1414.2
62.5°	362.0	361.4	367.9	393.6	555.3	1299.8	2033.8	2026.2	1924.6	1528.7	1507.1
65°	292.5	293.7	302.5	320.6	339.3	886.4	1980.6	2394.0	2301.2	1676.4	1605.8
67.5°	238.8	241.7	252.2	291.4	287.3	459.0	1686.9	2604.8	2622.3	1901.8	1738.3
70°	183.9	188.6	200.9	256.3	276.8	305.4	1169.6	2499.7	2546.4	2041.9	1658.3
72.5°	125.0	124.4	150.6	207.9	279.7	279.7	651.1	2013.3	2057.7	1882.5	1440.5
75°	67.7	71.8	99.8	157.1	256.3	270.3	370.8	1473.2	1535.7	1463.9	1114.1
77.5°	36.8	37.4	55.5	102.8	213.1	258.1	247.6	1002.0	1026.5	882.9	610.2
80°	19.3	19.9	29.2	67.1	147.1	239.4	206.1	597.3	574.0	338.7	201.4
82.5°	8.8	9.3	14.6	42.0	94.0	188.6	178.1	288.5	266.3	94.6	61.3
85°	3.5	3.5	6.4	25.1	54.9	92.8	152.4	144.8	120.9	28.6	30.4
87.5°	1.2	1.2	1.8	9.9	22.2	55.5	81.2	76.5	52.6	10.5	16.3
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°	594.4	594.4	594.4	594.4	594.4	594.4	594.4	594.4	594.4	594.4	594.4
2.5°	589.7	596.2	594.4	593.3	582.2	581.0	579.8	569.3	572.8	564.1	569.9
5°	593.3	596.8	587.4	569.9	554.1	536.6	523.2	513.8	496.9	490.5	489.3
7.5°	589.7	589.7	570.5	542.5	511.5	482.9	446.7	421.0	401.7	387.1	392.4
10°	585.1	578.1	558.2	508.6	452.5	409.3	357.4	319.4	290.8	281.4	275.6
12.5°	585.1	572.8	528.4	460.7	388.3	322.9	261.0	211.4	183.9	167.6	165.2
15°	579.8	561.7	506.8	415.7	325.8	237.1	166.4	123.8	100.4	94.0	91.7
17.5°	581.0	559.4	474.7	362.6	252.8	157.7	101.6	78.2	72.4	69.5	70.1
20°	583.3	559.4	446.1	310.6	182.2	98.1	70.1	66.0	63.1	61.9	62.5
22.5°	590.9	548.3	416.9	257.5	123.2	70.7	61.9	57.8	55.5	53.7	53.1
25°	592.1	546.5	388.9	205.0	84.7	59.6	54.3	49.6	46.7	44.4	43.8
27.5°	590.3	538.9	349.8	152.4	63.6	53.1	46.1	41.5	37.4	35.6	35.0
30°	596.8	524.9	316.5	109.8	53.7	46.1	39.1	33.9	30.4	28.0	28.0
32.5°	597.3	512.7	279.7	78.2	49.0	40.9	33.3	27.4	23.9	22.8	22.8
35°	597.9	501.6	238.8	59.6	43.8	35.0	27.4	22.8	20.4	18.7	18.7
37.5°	599.7	493.4	201.4	50.2	39.1	29.8	22.8	18.7	16.3	15.8	15.8
40°	603.2	482.3	162.3	44.4	33.9	25.1	19.3	15.8	13.4	12.8	12.3
42.5°	612.5	479.4	129.6	39.7	30.4	21.0	15.8	12.8	11.1	9.9	9.3
45°	651.1	487.0	100.4	36.8	25.7	17.5	13.4	10.5	8.2	7.6	7.0
47.5°	714.1	512.1	79.4	32.7	21.6	14.6	11.1	8.2	6.4	5.8	5.3
50°	809.9	569.3	64.8	29.2	18.1	12.3	8.8	6.4	4.7	4.1	4.1
52.5°	935.4	646.4	56.1	25.7	14.6	10.5	7.0	4.7	3.5	2.9	2.9
55°	1063.9	737.5	52.6	22.2	12.3	8.8	5.3	3.5	2.3	1.8	1.8
57.5°	1181.8	796.5	50.8	18.1	10.5	6.4	4.1	2.3	1.2	0.6	0.6
60°	1255.4	839.7	45.5	14.6	8.2	5.3	2.9	1.2	0.6	0.0	0.0
62.5°	1352.3	883.5	37.4	11.1	5.8	3.5	1.8	0.6	0.0	0.0	0.0
65°	1480.2	932.5	29.2	8.8	4.7	2.3	1.2	0.6	0.0	0.0	0.0
67.5°	1541.5	906.8	19.9	6.4	2.9	1.2	0.6	0.0	0.0	0.0	0.0
70°	1418.9	763.8	14.0	4.7	1.8	0.6	0.6	0.0	0.0	0.0	0.0
72.5°	1192.9	598.5	10.5	2.9	1.2	0.6	0.0	0.0	0.0	0.0	0.0
75°	879.4	374.3	8.2	2.3	1.2	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	466.5	139.6	5.8	1.8	0.6	0.0	0.0	0.0	0.0	0.0	0.0
80°	137.8	40.9	4.1	1.2	0.6	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	45.5	12.3	2.3	1.2	0.6	0.0	0.0	0.0	0.0	0.0	0.0
85°	23.4	4.7	1.2	1.2	0.6	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	13.4	1.8	1.2	1.2	0.6	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)