

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: P675443

Luminaire Tested: **CCW-SA-1A-827-U-SL2**

Issue Date: 04/25/2023

Test Information

Test Method: LM-79-08
Report Number: P675443
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-1A-827-U-SL2
Description: INVUE CLEAR CURVE Wall Pack MOUNT LIGHT SQUARE LUMINAIRE @350mA w/
SL2 distribution lens
Light Source: (16) 2700K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

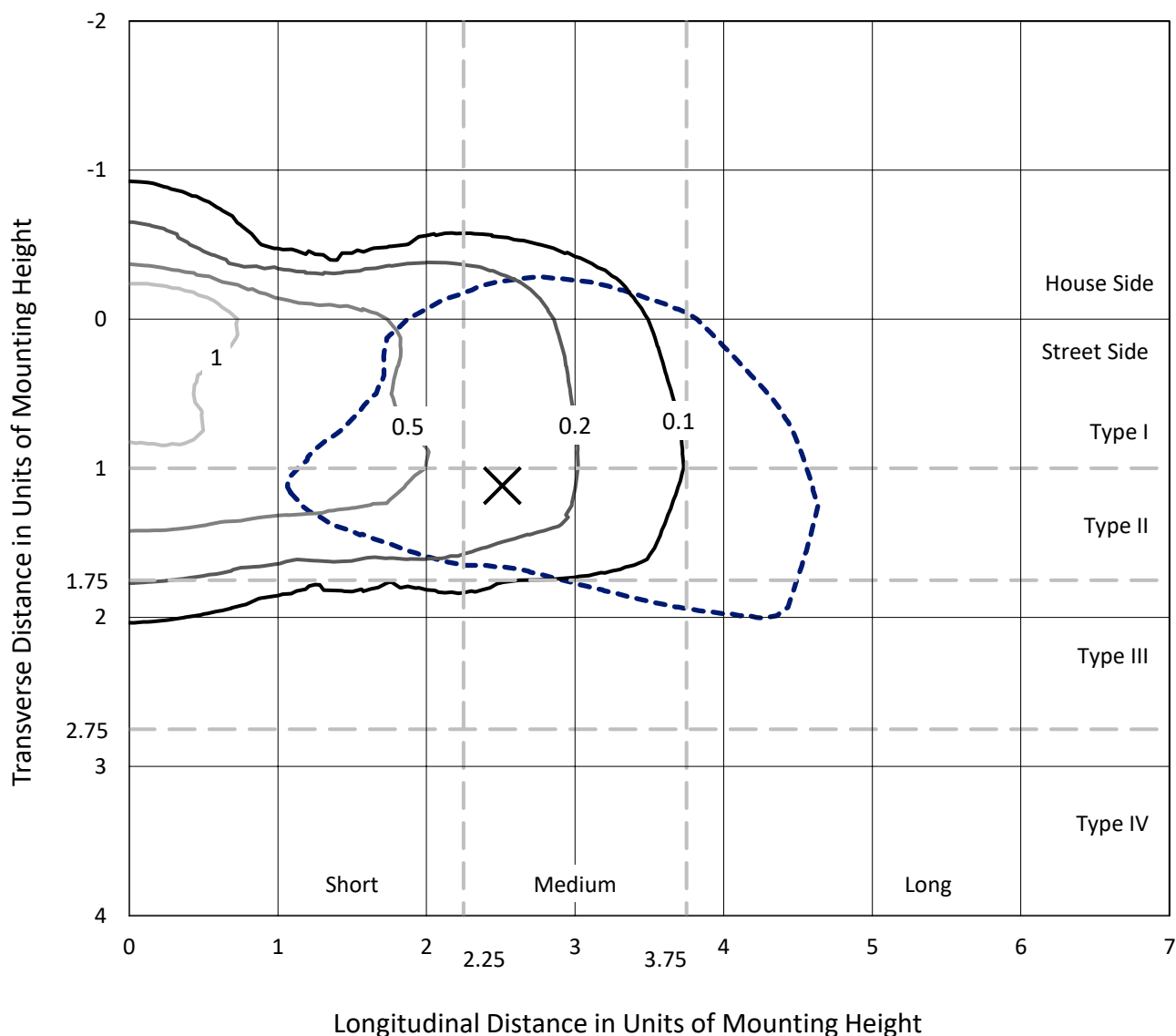
Lumens per Lamp: N/A
Luminaire Lumens: 1990.4 lumens
Efficiency: N/A
Efficacy: 110.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G1

Input Watts (W): 18
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

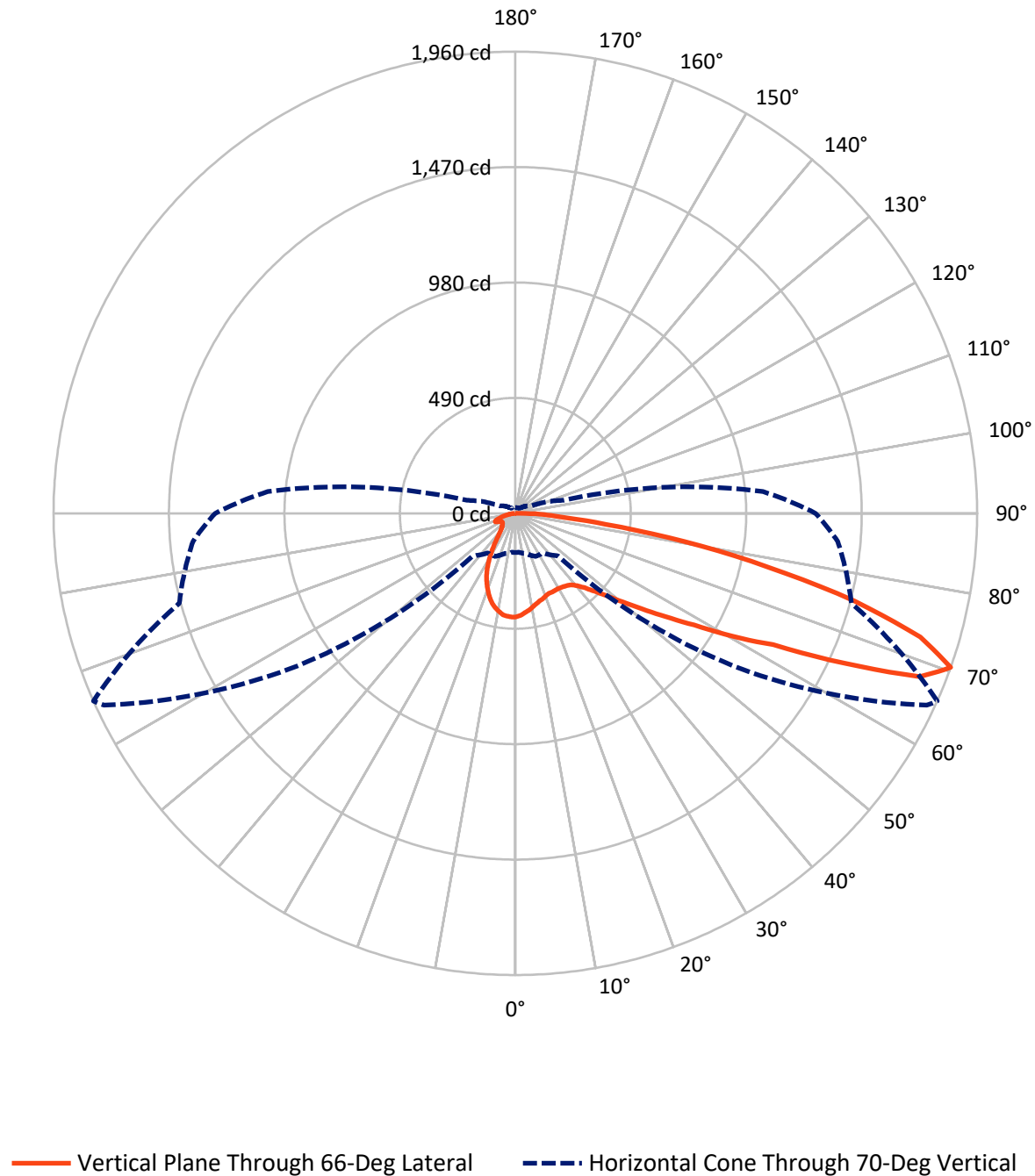
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 2 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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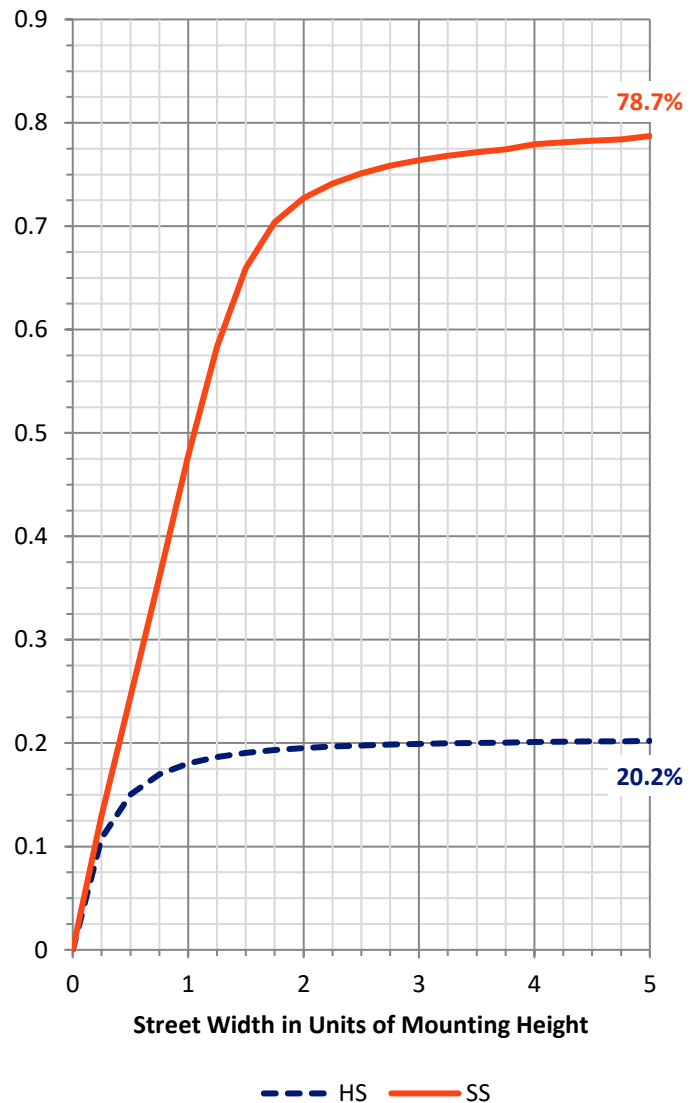
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	407.4	0.0	407.4
	% Fixture	20.5	0.0	20.5
Street Side	Lumens	1583.0	0.0	1583.0
	% Fixture	79.5	0.0	79.5
Total	Lumens	1990.4	0.0	1990.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	38.9	2.0
10°-20°	95.7	4.8
20°-30°	131.5	6.6
30°-40°	176.2	8.9
40°-50°	255.7	12.8
50°-60°	388.7	19.5
60°-70°	480.1	24.1
70°-80°	357.0	17.9
80°-90°	66.6	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°	1990.4	100.0
0°-180°	1990.4	100.0

Coefficient of Utilization



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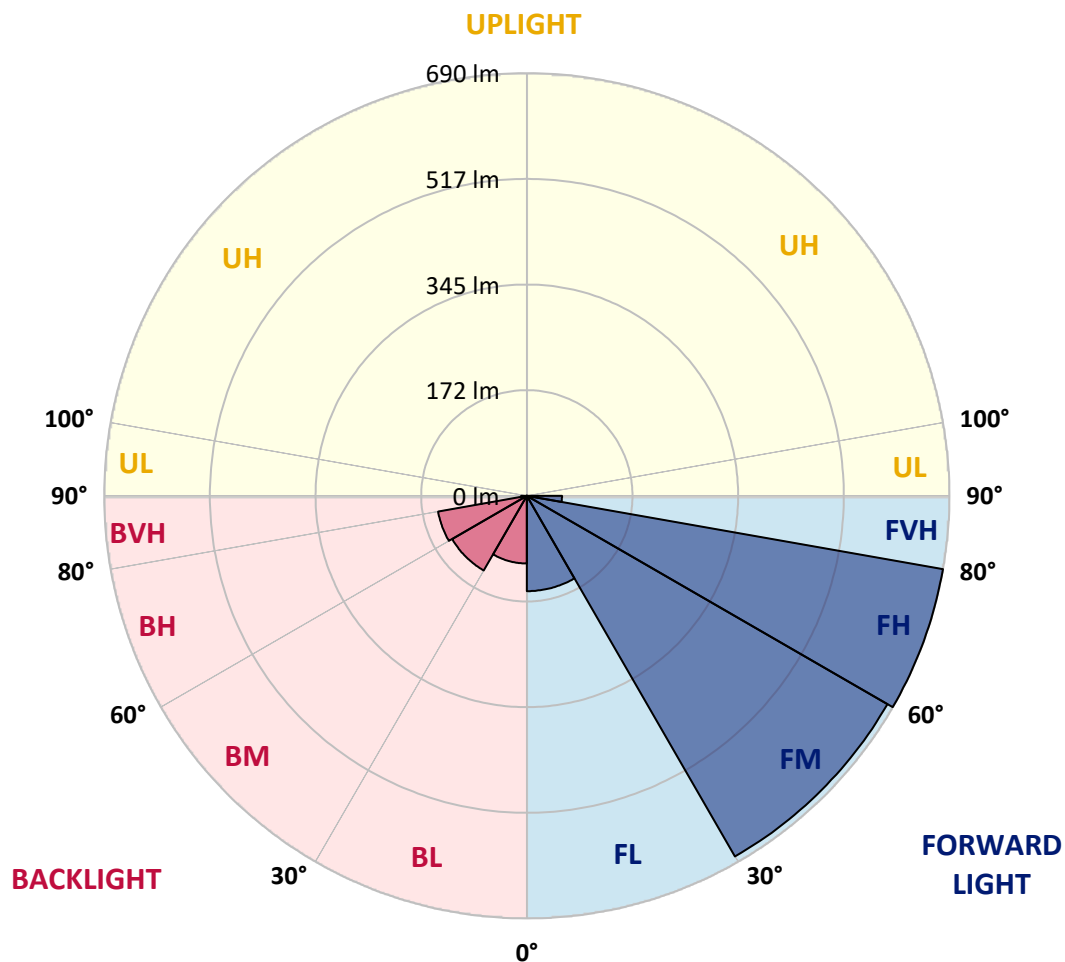
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	155.6	7.8			
FM	(30°-60°)	679.9	34.2			
FH	(60°-80°)	690.0	34.7			G1/1800
FVH	(80°-90°)	57.4	2.9			G1/100
BL	(0°-30°)	110.4	5.5	B1/500		
BM	(30°-60°)	140.7	7.1	B0/220		
BH	(60°-80°)	147.1	7.4	B1/500		G1/500
BVH	(80°-90°)	9.2	0.5			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 III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	439.7	439.7	439.7	439.7	439.7	439.7	439.7	439.7	439.7	439.7	439.7
2.5°	418.3	420.5	421.2	422.7	426.4	429.4	433.8	436.0	433.8	436.8	436.8
5°	389.4	386.4	393.8	396.8	401.2	407.2	417.5	425.7	423.4	432.3	439.7
7.5°	365.0	365.0	367.2	373.8	379.0	387.9	399.0	411.6	415.3	427.1	438.3
10°	342.8	345.7	345.7	356.1	359.0	369.4	387.9	403.5	404.2	424.2	439.7
12.5°	330.9	329.4	336.8	339.8	348.7	359.0	373.8	393.1	393.8	415.3	436.8
15°	321.3	322.8	326.5	333.9	342.0	350.2	364.2	382.0	385.7	410.9	435.3
17.5°	322.0	322.8	322.8	327.9	334.6	344.2	357.6	378.3	380.5	404.9	433.1
20°	326.5	323.5	325.7	327.9	332.4	341.3	352.4	370.1	372.4	404.2	438.3
22.5°	336.1	333.9	333.1	332.4	331.7	336.8	350.9	365.7	367.9	400.5	440.5
25°	351.6	350.9	345.7	340.5	336.8	336.8	347.9	369.4	368.7	400.5	442.0
27.5°	370.1	370.1	369.4	359.8	348.7	342.8	350.2	367.9	367.2	400.5	445.7
30°	395.3	395.3	393.1	384.2	364.2	347.2	351.6	366.4	368.7	397.5	442.7
32.5°	422.7	422.0	424.2	416.0	395.3	367.9	360.5	369.4	371.6	400.5	443.4
35°	442.7	447.1	454.5	447.1	426.4	389.4	373.1	375.3	376.8	401.2	446.4
37.5°	465.6	470.8	481.2	487.1	464.9	422.0	393.1	385.0	385.0	410.9	447.1
40°	499.0	493.8	511.5	521.9	513.0	461.9	424.2	402.7	403.5	423.4	456.8
42.5°	523.4	528.6	547.1	565.6	554.5	510.8	458.2	431.6	431.6	442.0	471.6
45°	550.8	556.7	582.6	604.8	613.0	569.3	504.9	473.0	471.6	478.2	498.2
47.5°	581.1	589.3	618.9	644.8	666.3	630.0	564.8	523.4	522.6	527.8	542.6
50°	615.9	618.9	643.3	690.7	733.6	710.7	638.1	594.5	590.8	593.0	613.0
52.5°	626.3	624.1	652.2	703.3	781.7	809.1	738.1	675.1	673.7	668.5	694.4
55°	588.5	595.9	623.3	688.5	821.0	925.4	847.6	785.4	772.1	758.1	789.1
57.5°	513.0	513.8	544.9	621.8	790.6	1021.6	1033.4	893.5	894.3	856.5	892.0
60°	399.0	396.8	421.2	490.8	704.0	1051.2	1236.3	1066.0	1058.6	955.0	987.5
62.5°	288.0	283.5	288.7	329.4	526.3	1006.1	1435.4	1259.2	1228.1	1055.7	1080.8
65°	236.9	239.1	241.3	243.6	295.4	829.9	1496.9	1574.6	1533.1	1173.4	1183.7
67.5°	196.2	197.7	207.3	220.6	219.1	490.1	1425.8	1866.3	1850.7	1319.2	1272.6
70°	166.6	165.8	176.9	201.4	205.1	254.7	1128.9	1926.2	1959.5	1476.1	1373.2
72.5°	133.3	134.7	144.4	176.9	201.4	214.7	650.0	1797.4	1796.7	1596.8	1319.2
75°	95.5	95.5	108.8	146.6	194.7	212.5	359.8	1459.1	1486.5	1500.6	1144.5
77.5°	62.9	65.9	76.2	109.6	182.9	208.0	228.0	1060.8	1094.9	1122.3	875.8
80°	42.9	44.4	51.1	76.2	154.7	209.5	186.6	713.6	727.0	619.6	355.3
82.5°	25.9	26.7	34.1	53.3	111.0	199.1	175.4	393.8	385.7	187.3	102.2
85°	14.1	14.8	21.5	35.5	73.3	174.0	172.5	193.2	179.9	68.8	42.9
87.5°	5.2	5.2	9.6	17.8	42.2	119.2	150.3	114.7	107.3	34.8	20.0
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°	439.7	439.7	439.7	439.7	439.7	439.7	439.7	439.7	439.7	439.7	439.7
2.5°	440.5	440.5	440.5	440.5	439.7	436.8	439.0	438.3	433.8	434.6	431.6
5°	439.0	442.7	440.5	437.5	433.8	424.9	422.0	419.7	413.8	411.6	413.8
7.5°	442.7	439.7	438.3	433.1	418.3	410.1	399.8	387.2	378.3	376.1	378.3
10°	442.0	442.0	435.3	420.5	406.4	382.7	369.4	347.2	334.6	330.9	331.7
12.5°	439.0	441.2	430.8	407.2	380.5	351.6	327.2	303.5	281.3	272.4	270.9
15°	442.0	439.7	421.2	390.9	353.9	313.9	278.3	243.6	222.8	209.5	206.5
17.5°	437.5	435.3	408.6	368.7	319.1	268.0	223.6	185.8	165.1	159.9	159.9
20°	442.7	428.6	393.8	342.0	282.8	217.6	167.3	139.2	134.0	134.0	135.5
22.5°	442.0	427.1	381.2	316.1	239.1	164.3	124.4	116.2	117.0	122.9	122.1
25°	437.5	424.2	363.5	287.2	193.2	123.6	102.9	100.7	105.9	112.5	111.8
27.5°	436.8	416.0	347.2	253.2	147.3	97.7	89.6	89.6	94.8	100.7	99.9
30°	432.3	409.4	327.2	214.7	111.0	85.1	82.2	82.2	84.4	87.4	87.4
32.5°	431.6	400.5	305.0	174.7	88.8	77.0	75.5	76.2	76.2	77.7	77.0
35°	425.7	388.7	282.1	135.5	77.0	72.5	71.1	70.3	70.3	69.6	69.6
37.5°	423.4	381.2	258.4	105.1	71.8	68.8	67.4	65.1	64.4	64.4	63.7
40°	425.7	373.8	235.4	85.1	67.4	65.9	63.7	60.7	60.0	60.0	60.0
42.5°	433.8	373.1	211.7	74.0	65.1	62.9	60.0	57.0	56.3	57.0	56.3
45°	452.3	379.0	188.8	68.8	62.2	60.0	56.3	54.0	53.3	54.0	54.0
47.5°	482.7	395.3	168.0	65.9	60.0	57.0	53.3	51.1	51.1	51.1	51.1
50°	533.0	426.4	148.1	63.7	58.5	54.8	51.1	48.1	47.4	47.4	48.1
52.5°	608.5	479.7	131.8	62.2	56.3	51.8	48.1	45.9	44.4	43.7	44.4
55°	699.6	557.4	126.6	60.7	53.3	49.6	45.9	42.9	41.5	41.5	40.7
57.5°	797.3	643.3	135.5	59.2	51.1	46.6	42.9	40.0	38.5	37.8	37.8
60°	903.2	744.7	168.0	58.5	48.9	43.7	40.0	37.8	35.5	34.8	34.8
62.5°	999.4	836.5	226.5	57.7	47.4	40.7	37.0	34.1	32.6	31.8	31.8
65°	1109.0	938.7	283.5	60.7	46.6	38.5	34.1	31.1	29.6	28.9	28.9
67.5°	1204.5	1027.5	316.8	68.1	48.9	35.5	30.4	28.1	27.4	26.7	26.7
70°	1274.0	1054.9	212.5	74.8	52.6	33.3	27.4	25.9	24.4	24.4	24.4
72.5°	1180.8	941.6	125.8	70.3	49.6	31.1	24.4	22.9	22.2	22.2	21.5
75°	1009.8	801.7	97.0	57.0	40.0	26.7	21.5	20.0	19.2	19.2	18.5
77.5°	745.5	574.5	71.8	45.2	31.1	21.5	18.5	17.8	17.0	16.3	16.3
80°	291.7	251.7	48.9	33.3	22.9	17.0	15.5	14.8	14.1	13.3	13.3
82.5°	90.3	76.2	28.1	22.2	16.3	13.3	12.6	11.8	11.1	10.4	10.4
85°	39.2	37.8	18.5	14.1	11.1	8.9	8.9	8.1	7.4	6.7	6.7
87.5°	19.2	18.5	10.4	6.7	5.9	4.4	4.4	3.7	3.0	3.0	3.0
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)