

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: P675476

Luminaire Tested: **CCW-SA-1A-840-U-SL2**

Issue Date: 04/25/2023

Test Information

Test Method: LM-79-08
Report Number: P675476
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-1A-840-U-SL2
Description: INVUE CLEAR CURVE Wall Pack MOUNT LIGHT SQUARE LUMINAIRE @350mA w/
SL2 distribution lens
Light Source: (16) 4000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

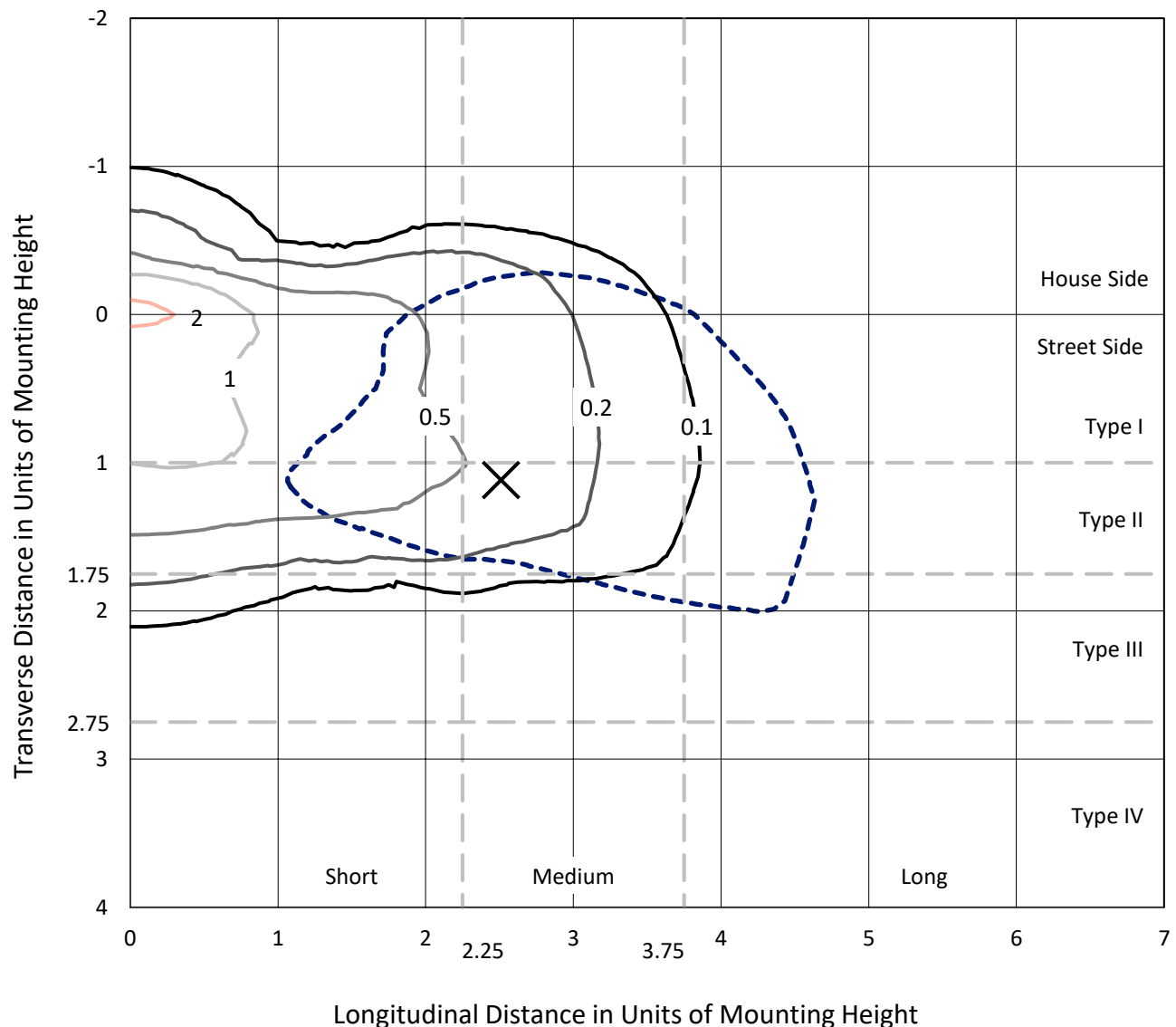
Lumens per Lamp: N/A
Luminaire Lumens: 2308.5 lumens
Efficiency: N/A
Efficacy: 128.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G1

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

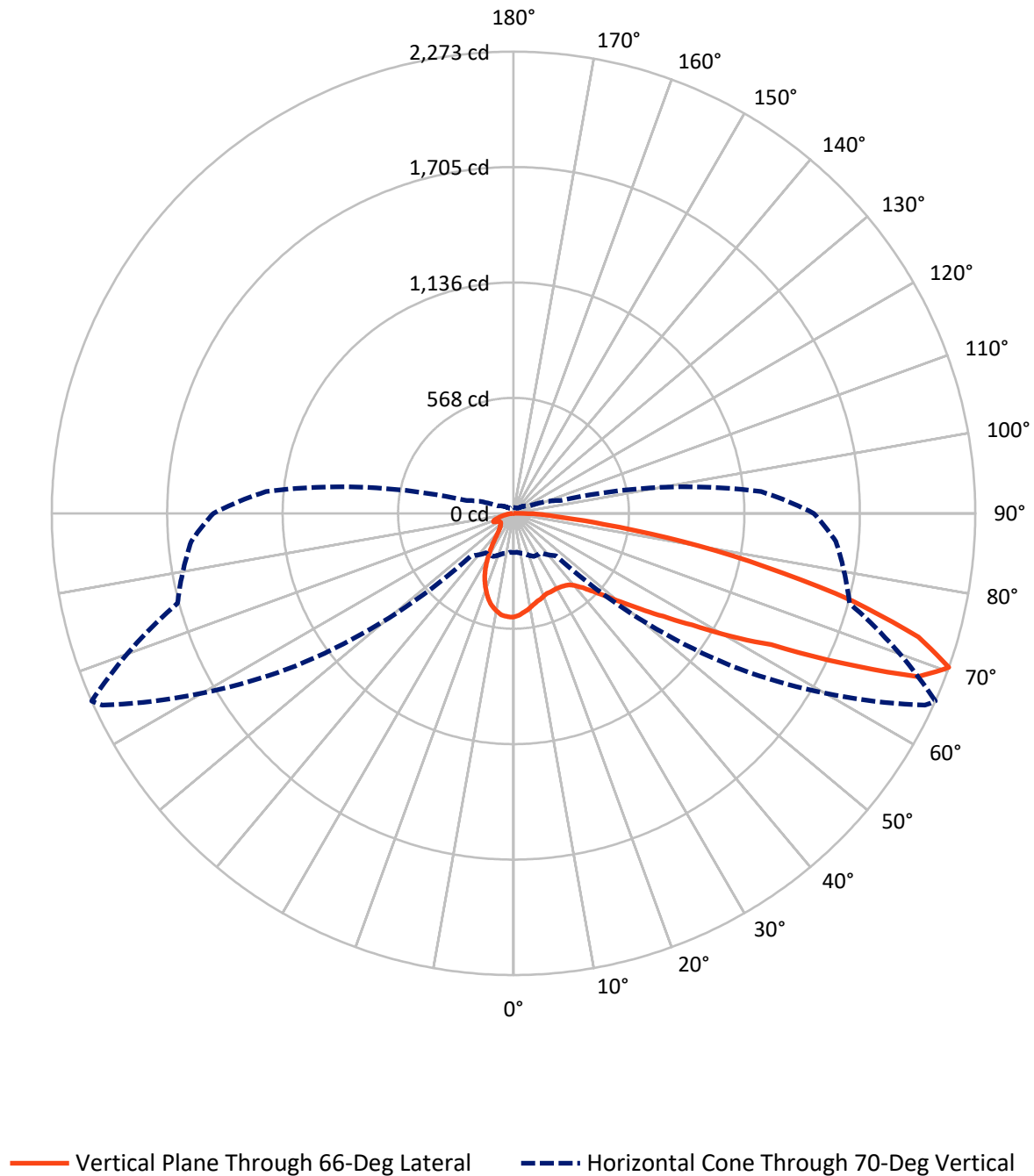
× Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



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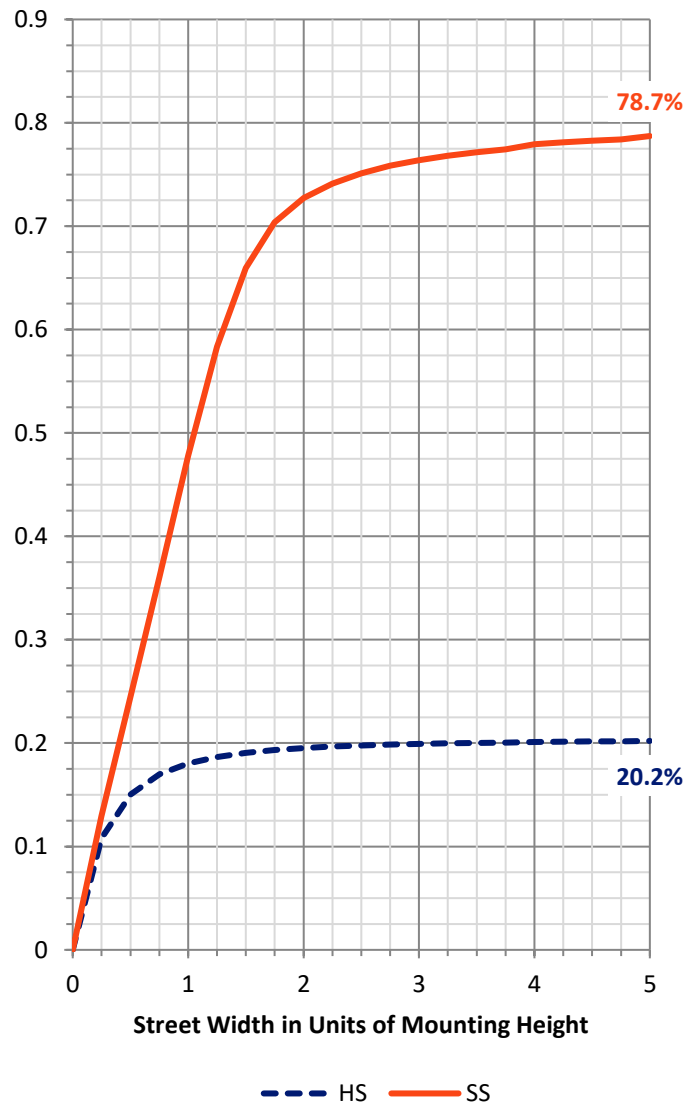
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	472.5	0.0	472.5
	% Fixture	20.5	0.0	20.5
Street Side	Lumens	1836.0	0.0	1836.0
	% Fixture	79.5	0.0	79.5
Total	Lumens	2308.5	0.0	2308.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	45.1	2.0
10°-20°	111.0	4.8
20°-30°	152.5	6.6
30°-40°	204.4	8.9
40°-50°	296.6	12.8
50°-60°	450.8	19.5
60°-70°	556.8	24.1
70°-80°	414.1	17.9
80°-90°	77.2	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°	2308.5	100.0
0°-180°	2308.5	100.0

Coefficient of Utilization



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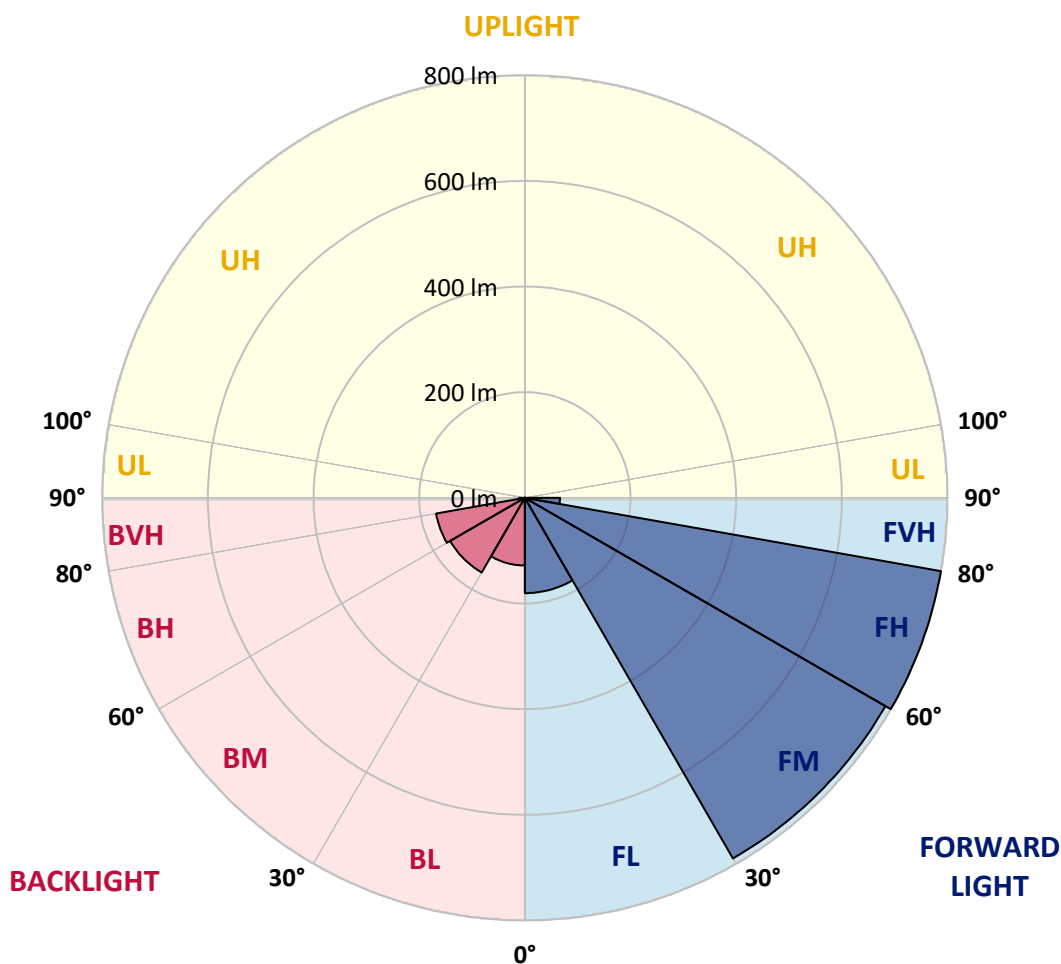
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	180.5	7.8			
FM	(30°-60°)	788.6	34.2			
FH	(60°-80°)	800.3	34.7			G1/1800
FVH	(80°-90°)	66.6	2.9			G1/100
BL	(0°-30°)	128.1	5.5	B1/500		
BM	(30°-60°)	163.2	7.1	B0/220		
BH	(60°-80°)	170.6	7.4	B1/500		G1/500
BVH	(80°-90°)	10.7	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-G1

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	510.0	510.0	510.0	510.0	510.0	510.0	510.0	510.0	510.0	510.0	510.0
2.5°	485.1	487.7	488.6	490.3	494.6	498.0	503.2	505.7	503.2	506.6	506.6
5°	451.6	448.2	456.8	460.2	465.4	472.2	484.3	493.7	491.1	501.4	510.0
7.5°	423.3	423.3	425.9	433.6	439.6	449.9	462.8	477.4	481.7	495.4	508.3
10°	397.5	401.0	401.0	413.0	416.4	428.5	449.9	467.9	468.8	492.0	510.0
12.5°	383.8	382.1	390.7	394.1	404.4	416.4	433.6	455.9	456.8	481.7	506.6
15°	372.6	374.4	378.7	387.2	396.7	406.1	422.4	443.0	447.3	476.5	504.9
17.5°	373.5	374.4	374.4	380.4	388.1	399.3	414.7	438.8	441.3	469.7	502.3
20°	378.7	375.2	377.8	380.4	385.5	395.8	408.7	429.3	431.9	468.8	508.3
22.5°	389.8	387.2	386.4	385.5	384.7	390.7	407.0	424.2	426.7	464.5	510.9
25°	407.8	407.0	401.0	395.0	390.7	390.7	403.6	428.5	427.6	464.5	512.6
27.5°	429.3	429.3	428.5	417.3	404.4	397.5	406.1	426.7	425.9	464.5	516.9
30°	458.5	458.5	455.9	445.6	422.4	402.7	407.8	425.0	427.6	461.1	513.5
32.5°	490.3	489.4	492.0	482.5	458.5	426.7	418.1	428.5	431.0	464.5	514.3
35°	513.5	518.6	527.2	518.6	494.6	451.6	432.7	435.3	437.0	465.4	517.7
37.5°	540.1	546.1	558.1	565.0	539.2	489.4	455.9	446.5	446.5	476.5	518.6
40°	578.7	572.7	593.3	605.3	595.0	535.8	492.0	467.1	467.9	491.1	529.8
42.5°	607.0	613.1	634.5	656.0	643.1	592.4	531.5	500.6	500.6	512.6	546.9
45°	638.8	645.7	675.7	701.5	710.9	660.3	585.6	548.7	546.9	554.7	577.9
47.5°	674.0	683.5	717.8	747.9	772.8	730.7	655.1	607.0	606.2	612.2	629.4
50°	714.4	717.8	746.1	801.1	850.9	824.3	740.1	689.5	685.2	687.8	710.9
52.5°	726.4	723.8	756.4	815.7	906.7	938.5	856.0	783.1	781.3	775.3	805.4
55°	682.6	691.2	723.0	798.5	952.2	1073.3	983.1	911.0	895.5	879.2	915.3
57.5°	595.0	595.9	631.9	721.2	917.0	1184.9	1198.6	1036.4	1037.2	993.4	1034.6
60°	462.8	460.2	488.6	569.3	816.5	1219.2	1433.9	1236.4	1227.8	1107.6	1145.4
62.5°	334.0	328.9	334.9	382.1	610.5	1166.9	1664.9	1460.5	1424.5	1224.4	1253.6
65°	274.8	277.3	279.9	282.5	342.6	962.5	1736.1	1826.3	1778.2	1360.9	1372.9
67.5°	227.5	229.3	240.4	255.9	254.2	568.4	1653.7	2164.6	2146.6	1530.1	1476.0
70°	193.2	192.3	205.2	233.5	237.8	295.4	1309.4	2234.1	2272.8	1712.1	1592.7
72.5°	154.6	156.3	167.4	205.2	233.5	249.0	753.9	2084.7	2083.9	1852.0	1530.1
75°	110.8	110.8	126.2	170.0	225.8	246.4	417.3	1692.3	1724.1	1740.4	1327.4
77.5°	73.0	76.4	88.4	127.1	212.1	241.3	264.5	1230.4	1269.9	1301.7	1015.7
80°	49.8	51.5	59.2	88.4	179.5	243.0	216.4	827.7	843.2	718.7	412.1
82.5°	30.1	30.9	39.5	61.8	128.8	231.0	203.5	456.8	447.3	217.2	118.5
85°	16.3	17.2	24.9	41.2	85.0	201.8	200.1	224.1	208.6	79.9	49.8
87.5°	6.0	6.0	11.2	20.6	48.9	138.2	174.3	133.1	124.5	40.4	23.2
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°	510.0	510.0	510.0	510.0	510.0	510.0	510.0	510.0	510.0	510.0	510.0
2.5°	510.9	510.9	510.9	510.9	510.0	506.6	509.2	508.3	503.2	504.0	500.6
5°	509.2	513.5	510.9	507.4	503.2	492.8	489.4	486.8	480.0	477.4	480.0
7.5°	513.5	510.0	508.3	502.3	485.1	475.7	463.7	449.1	438.8	436.2	438.8
10°	512.6	512.6	504.9	487.7	471.4	443.9	428.5	402.7	388.1	383.8	384.7
12.5°	509.2	511.7	499.7	472.2	441.3	407.8	379.5	352.0	326.3	316.0	314.3
15°	512.6	510.0	488.6	453.4	410.4	364.1	322.8	282.5	258.4	243.0	239.6
17.5°	507.4	504.9	474.0	427.6	370.1	310.8	259.3	215.5	191.5	185.5	185.5
20°	513.5	497.1	456.8	396.7	328.0	252.4	194.0	161.4	155.4	155.4	157.1
22.5°	512.6	495.4	442.2	366.6	277.3	190.6	144.2	134.8	135.7	142.5	141.7
25°	507.4	492.0	421.6	333.1	224.1	143.4	119.3	116.8	122.8	130.5	129.7
27.5°	506.6	482.5	402.7	293.6	170.9	113.3	103.9	103.9	109.9	116.8	115.9
30°	501.4	474.8	379.5	249.0	128.8	98.7	95.3	95.3	97.9	101.3	101.3
32.5°	500.6	464.5	353.8	202.6	103.0	89.3	87.6	88.4	88.4	90.2	89.3
35°	493.7	450.8	327.1	157.1	89.3	84.1	82.4	81.6	81.6	80.7	80.7
37.5°	491.1	442.2	299.7	121.9	83.3	79.9	78.1	75.6	74.7	74.7	73.8
40°	493.7	433.6	273.0	98.7	78.1	76.4	73.8	70.4	69.5	69.5	69.5
42.5°	503.2	432.7	245.6	85.9	75.6	73.0	69.5	66.1	65.3	66.1	65.3
45°	524.6	439.6	218.9	79.9	72.1	69.5	65.3	62.7	61.8	62.7	62.7
47.5°	559.8	458.5	194.9	76.4	69.5	66.1	61.8	59.2	59.2	59.2	59.2
50°	618.2	494.6	171.7	73.8	67.8	63.5	59.2	55.8	55.0	55.0	55.8
52.5°	705.8	556.4	152.8	72.1	65.3	60.1	55.8	53.2	51.5	50.7	51.5
55°	811.4	646.5	146.8	70.4	61.8	57.5	53.2	49.8	48.1	48.1	47.2
57.5°	924.7	746.1	157.1	68.7	59.2	54.1	49.8	46.4	44.6	43.8	43.8
60°	1047.5	863.8	194.9	67.8	56.7	50.7	46.4	43.8	41.2	40.4	40.4
62.5°	1159.1	970.2	262.7	67.0	55.0	47.2	42.9	39.5	37.8	36.9	36.9
65°	1286.2	1088.7	328.9	70.4	54.1	44.6	39.5	36.1	34.3	33.5	33.5
67.5°	1397.0	1191.8	367.5	79.0	56.7	41.2	35.2	32.6	31.8	30.9	30.9
70°	1477.7	1223.5	246.4	86.7	61.0	38.6	31.8	30.1	28.3	28.3	28.3
72.5°	1369.5	1092.2	146.0	81.6	57.5	36.1	28.3	26.6	25.8	25.8	24.9
75°	1171.2	929.9	112.5	66.1	46.4	30.9	24.9	23.2	22.3	22.3	21.5
77.5°	864.6	666.3	83.3	52.4	36.1	24.9	21.5	20.6	19.7	18.9	18.9
80°	338.3	291.9	56.7	38.6	26.6	19.7	18.0	17.2	16.3	15.5	15.5
82.5°	104.8	88.4	32.6	25.8	18.9	15.5	14.6	13.7	12.9	12.0	12.0
85°	45.5	43.8	21.5	16.3	12.9	10.3	10.3	9.4	8.6	7.7	7.7
87.5°	22.3	21.5	12.0	7.7	6.9	5.2	5.2	4.3	3.4	3.4	3.4
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)