

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: P675765

Luminaire Tested: **CCW-SA-1B-840-U-SL4**

Issue Date: 04/25/2023

Test Information

Test Method: LM-79-08
Report Number: P675765
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-1B-840-U-SL4
Description: INVUE CLEAR CURVE Wall Pack MOUNT LIGHT SQUARE LUMINAIRE @450mA w/
SL4 distribution lens
Light Source: (16) 4000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

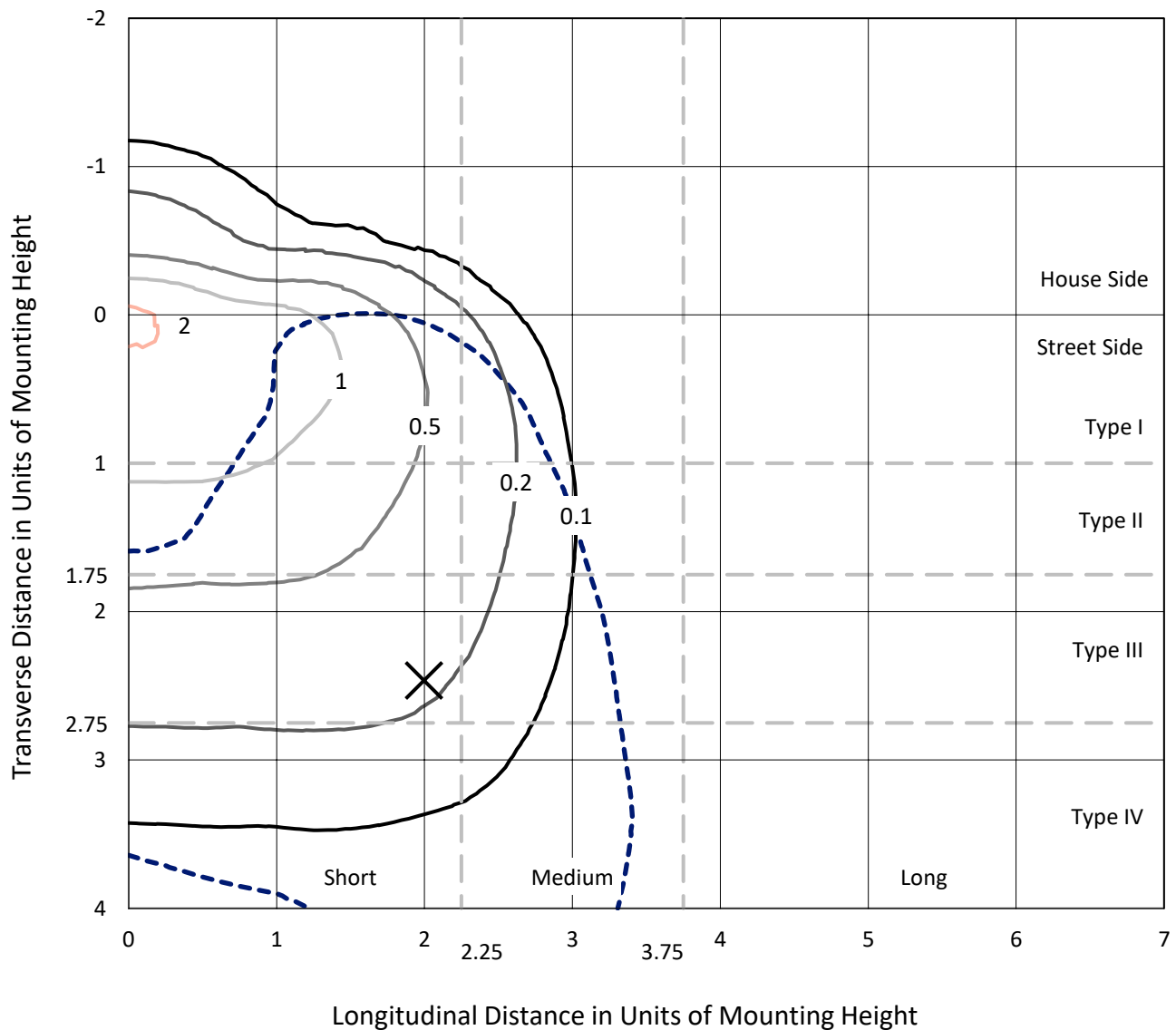
Lumens per Lamp: N/A
Luminaire Lumens: 2885.4 lumens
Efficiency: N/A
Efficacy: 120.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G1

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

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Iso-Footcandle Lines of Horizontal Illumination

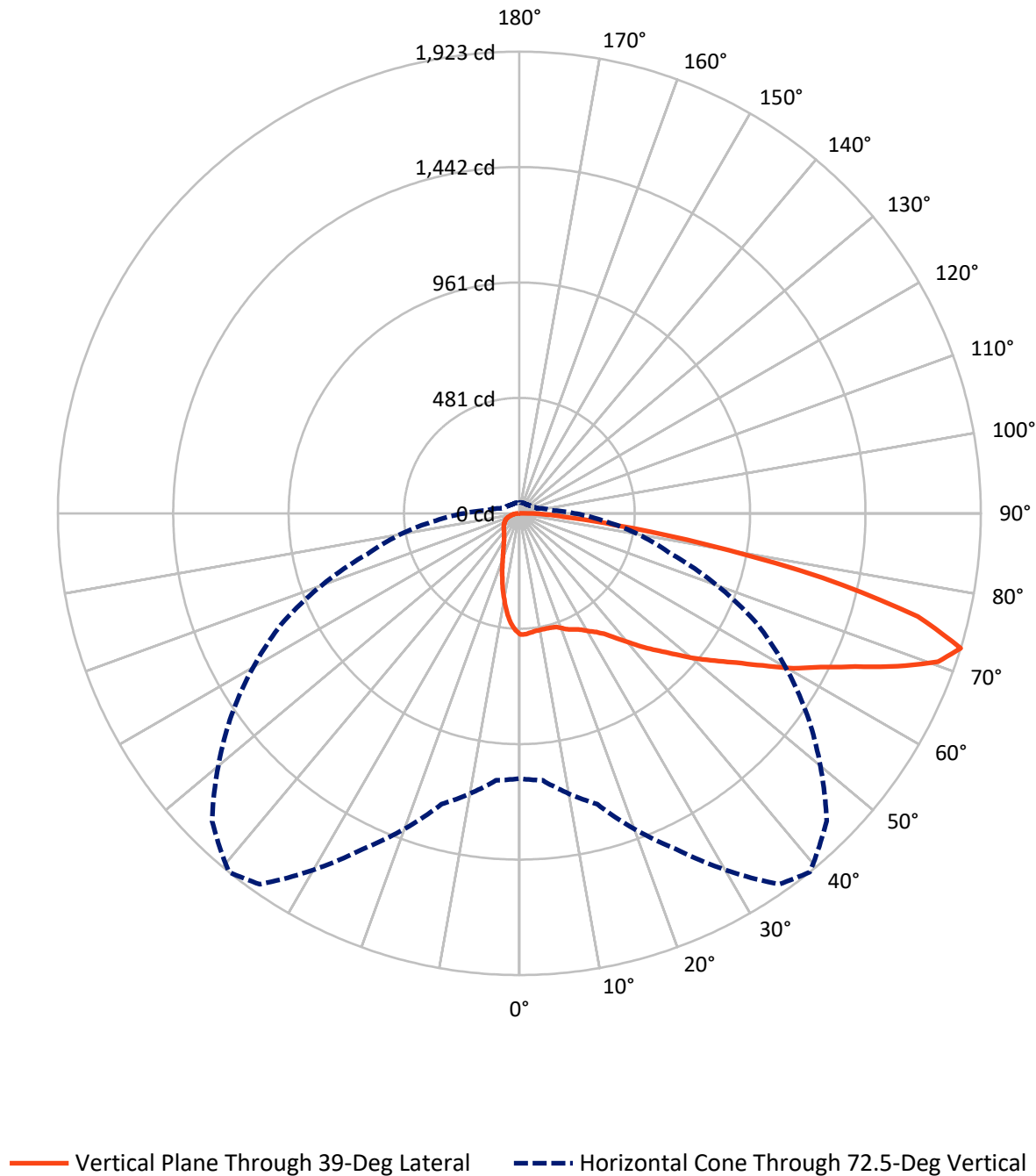
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 2.2 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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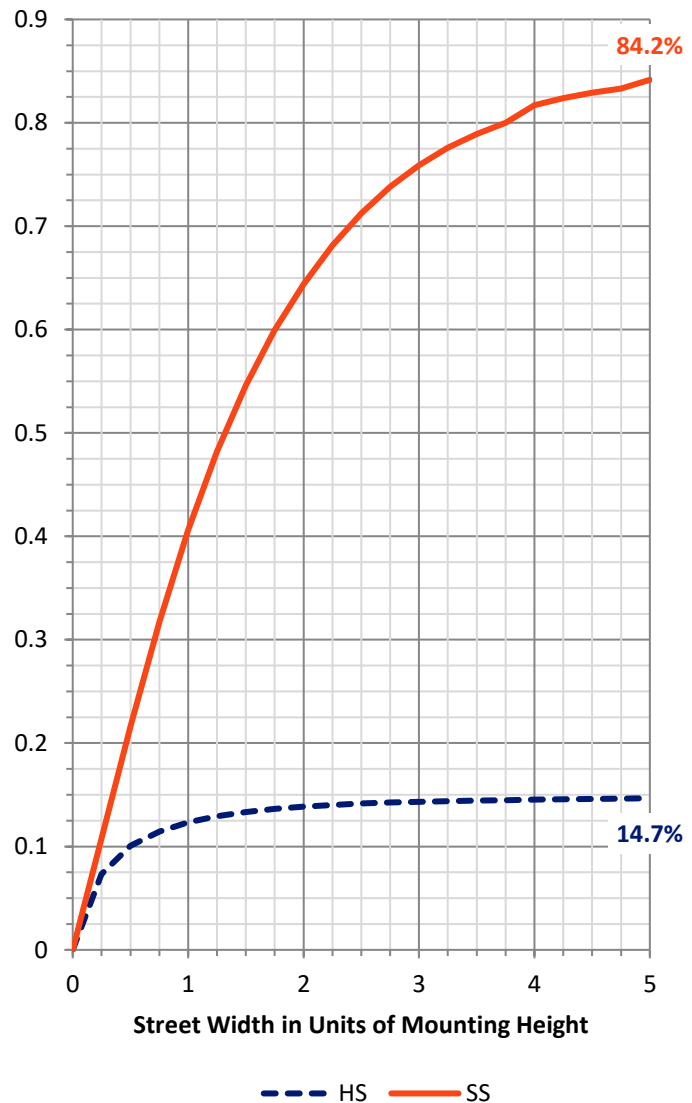
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	428.8	0.0	428.8
	% Fixture	14.9	0.0	14.9
Street Side	Lumens	2456.6	0.0	2456.6
	% Fixture	85.1	0.0	85.1
Total	Lumens	2885.4	0.0	2885.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	44.6	1.5
10°-20°	113.9	3.9
20°-30°	173.5	6.0
30°-40°	253.9	8.8
40°-50°	388.6	13.5
50°-60°	570.0	19.8
60°-70°	727.0	25.2
70°-80°	525.2	18.2
80°-90°	88.6	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°	2885.4	100.0
0°-180°	2885.4	100.0

Coefficient of Utilization



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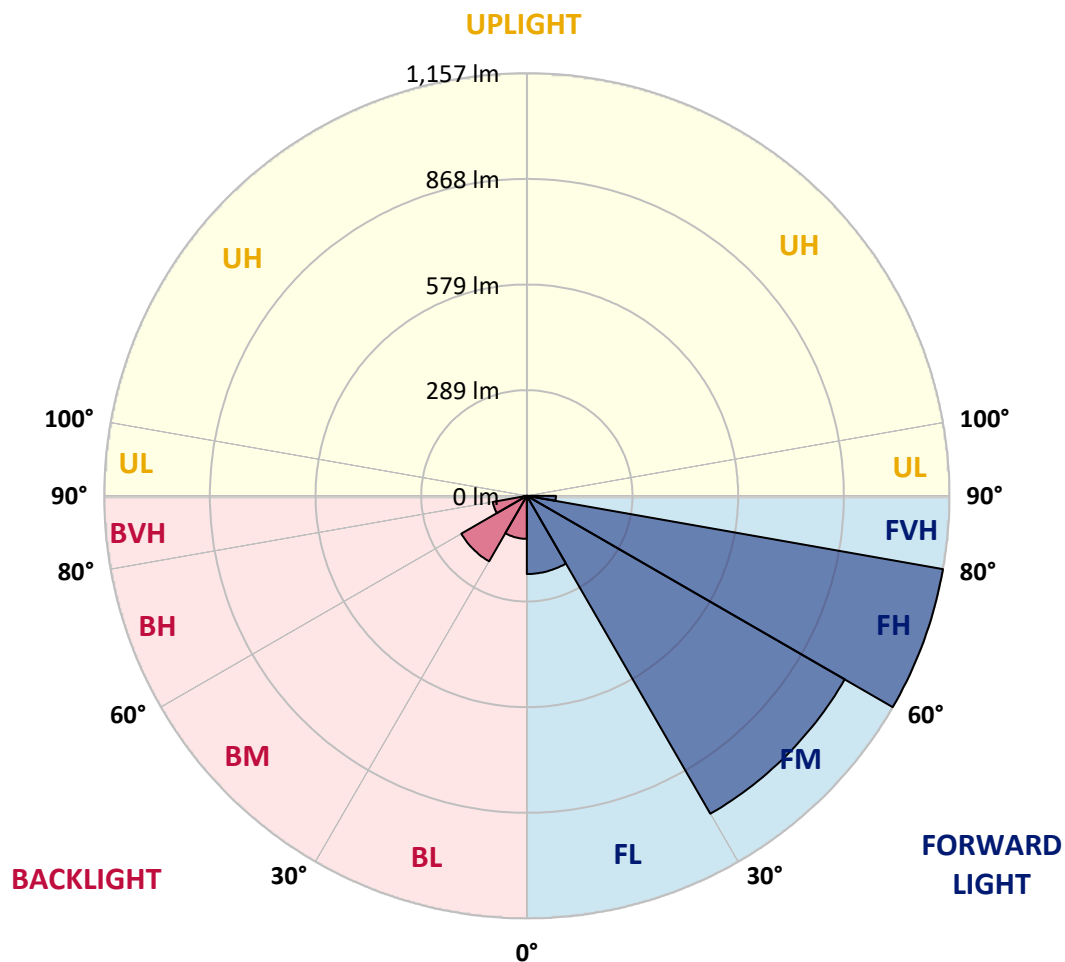
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	214.1	7.4			
FM	(30°-60°)	1005.4	34.8			
FH	(60°-80°)	1157.5	40.1			G1/1800
FVH	(80°-90°)	79.6	2.8			G1/100
BL	(0°-30°)	117.9	4.1	B1/500		
BM	(30°-60°)	207.2	7.2	B0/220		
BH	(60°-80°)	94.7	3.3	B0/110		G0/110
BVH	(80°-90°)	9.0	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	505.1	505.1	505.1	505.1	505.1	505.1	505.1	505.1	505.1	505.1	505.1
2.5°	512.7	513.7	511.6	509.4	508.3	504.0	508.3	506.2	504.0	504.0	504.0
5°	506.2	507.2	507.2	505.1	506.2	498.6	497.5	498.6	495.3	493.2	492.1
7.5°	496.4	498.6	502.9	501.8	497.5	494.2	495.3	494.2	488.8	485.6	476.9
10°	488.8	491.0	493.2	495.3	494.2	493.2	492.1	487.7	486.7	479.1	470.4
12.5°	481.2	481.2	482.3	491.0	492.1	492.1	485.6	485.6	482.3	481.2	468.2
15°	473.6	476.9	485.6	487.7	492.1	494.2	491.0	491.0	485.6	478.0	468.2
17.5°	475.8	481.2	489.9	495.3	497.5	497.5	501.8	498.6	491.0	486.7	476.9
20°	486.7	487.7	498.6	508.3	510.5	510.5	506.2	502.9	497.5	489.9	476.9
22.5°	493.2	500.7	513.7	519.2	525.7	525.7	520.2	512.7	505.1	497.5	483.4
25°	521.3	522.4	527.8	536.5	539.8	535.4	530.0	521.3	511.6	504.0	491.0
27.5°	540.8	546.3	552.8	557.1	551.7	548.4	544.1	534.3	526.8	520.2	501.8
30°	576.6	570.1	574.4	576.6	566.9	569.0	557.1	548.4	539.8	539.8	519.2
32.5°	598.3	603.7	599.4	598.3	590.7	589.6	582.0	572.3	566.9	573.4	545.2
35°	636.2	633.0	633.0	631.9	623.2	617.8	617.8	600.5	605.9	620.0	585.3
37.5°	655.7	654.6	661.2	666.6	657.9	661.2	657.9	650.3	652.5	677.4	635.1
40°	675.2	682.8	695.8	698.0	703.4	707.8	705.6	704.5	713.2	753.3	702.3
42.5°	693.7	700.2	719.7	737.0	750.0	764.1	765.2	765.2	793.4	850.8	783.6
45°	717.5	722.9	750.0	784.7	806.4	816.1	824.8	834.6	872.5	940.8	870.3
47.5°	750.0	754.4	786.9	830.2	872.5	877.9	895.3	906.1	963.5	1032.9	959.2
50°	796.6	793.4	819.4	882.3	923.4	949.5	974.4	993.9	1050.3	1126.1	1028.6
52.5°	834.6	834.6	854.1	937.5	993.9	1018.8	1044.8	1071.9	1137.0	1219.3	1084.9
55°	899.6	893.1	905.0	991.7	1073.0	1096.9	1146.7	1169.5	1232.3	1288.7	1132.6
57.5°	944.0	947.3	961.4	1063.3	1166.2	1195.5	1245.3	1261.6	1316.9	1361.3	1167.3
60°	1002.6	991.7	1022.1	1142.4	1269.2	1310.4	1351.6	1361.3	1402.5	1407.9	1183.6
62.5°	1058.9	1056.8	1082.8	1221.5	1379.7	1409.0	1451.3	1462.1	1479.5	1444.8	1160.8
65°	1093.6	1107.7	1156.5	1308.2	1505.5	1538.0	1580.3	1558.6	1539.1	1412.3	1049.2
67.5°	1141.3	1147.8	1222.6	1402.5	1650.7	1699.5	1736.3	1650.7	1505.5	1278.9	883.3
70°	1152.1	1169.5	1267.0	1501.1	1800.3	1850.1	1852.3	1619.3	1383.0	1040.5	640.6
72.5°	1104.4	1116.4	1254.0	1542.3	1885.9	1922.8	1811.1	1464.3	1095.8	655.7	349.0
75°	928.9	962.5	1091.4	1415.5	1728.7	1714.7	1534.7	1117.5	657.9	290.5	147.4
77.5°	647.1	648.1	782.5	1029.7	1294.1	1290.9	1094.7	648.1	281.8	117.1	86.7
80°	287.2	307.8	389.1	554.9	785.8	785.8	638.4	321.9	140.9	75.9	59.6
82.5°	169.1	175.6	208.1	259.0	382.6	403.2	305.6	214.6	96.5	47.7	36.9
85°	124.6	135.5	155.0	156.1	181.0	184.3	169.1	186.4	66.1	26.0	30.3
87.5°	93.2	99.7	123.6	103.0	96.5	91.0	104.0	190.8	24.9	13.0	9.8
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°	505.1	505.1	505.1	505.1	505.1	505.1	505.1	505.1	505.1	505.1	505.1
2.5°	499.7	499.7	497.5	493.2	493.2	484.5	486.7	488.8	483.4	483.4	484.5
5°	492.1	487.7	482.3	475.8	471.5	459.6	457.4	449.8	448.7	446.5	443.3
7.5°	476.9	470.4	460.6	450.9	436.8	426.0	412.9	402.1	397.8	394.5	393.4
10°	462.8	461.7	445.5	426.0	404.3	383.7	364.2	350.1	341.4	336.0	334.9
12.5°	462.8	454.1	431.4	404.3	372.8	342.5	317.6	298.1	286.1	277.5	274.2
15°	460.6	452.0	421.6	380.4	344.7	303.5	268.8	248.2	230.9	222.2	223.3
17.5°	462.8	449.8	407.5	363.1	313.2	268.8	227.6	202.7	185.3	178.8	177.8
20°	463.9	447.6	396.7	339.2	280.7	230.9	191.8	168.0	155.0	150.7	150.7
22.5°	461.7	441.1	380.4	311.1	252.5	199.4	166.9	146.3	137.6	132.2	134.4
25°	471.5	440.0	365.3	287.2	220.0	173.4	148.5	133.3	127.9	124.6	125.7
27.5°	473.6	440.0	353.3	260.1	191.8	153.9	134.4	124.6	120.3	118.1	117.1
30°	482.3	442.2	339.2	233.0	169.1	138.7	123.6	118.1	114.9	113.8	113.8
32.5°	506.2	448.7	324.1	210.3	149.6	125.7	116.0	111.6	109.5	108.4	109.5
35°	534.3	466.1	307.8	186.4	135.5	117.1	109.5	106.2	105.1	105.1	105.1
37.5°	577.7	492.1	293.7	166.9	123.6	108.4	103.0	101.9	100.8	101.9	101.9
40°	627.6	520.2	280.7	151.7	114.9	103.0	97.5	97.5	96.5	97.5	98.6
42.5°	685.0	554.9	267.7	136.6	107.3	98.6	94.3	93.2	92.1	94.3	95.4
45°	764.1	602.6	259.0	127.9	101.9	94.3	90.0	90.0	88.9	88.9	91.0
47.5°	830.2	648.1	259.0	119.2	98.6	91.0	86.7	86.7	84.5	85.6	85.6
50°	885.5	687.2	264.5	117.1	94.3	87.8	84.5	82.4	81.3	81.3	81.3
52.5°	922.4	711.0	268.8	114.9	92.1	83.5	81.3	80.2	78.0	77.0	78.0
55°	959.2	727.3	269.9	114.9	88.9	79.1	77.0	77.0	74.8	73.7	73.7
57.5°	973.3	720.8	254.7	112.7	86.7	75.9	73.7	72.6	71.5	70.5	70.5
60°	966.8	696.9	221.1	107.3	84.5	73.7	69.4	69.4	69.4	67.2	68.3
62.5°	922.4	615.6	177.8	98.6	81.3	69.4	65.0	67.2	67.2	66.1	66.1
65°	805.3	508.3	144.2	91.0	77.0	66.1	61.8	65.0	66.1	65.0	63.9
67.5°	643.8	391.3	119.2	82.4	71.5	60.7	57.4	60.7	61.8	60.7	60.7
70°	442.2	252.5	96.5	73.7	63.9	55.3	52.0	54.2	54.2	55.3	55.3
72.5°	228.7	136.6	79.1	62.9	55.3	49.9	46.6	46.6	45.5	45.5	45.5
75°	113.8	93.2	66.1	53.1	46.6	42.3	40.1	37.9	37.9	37.9	37.9
77.5°	79.1	71.5	54.2	42.3	37.9	34.7	34.7	31.4	31.4	31.4	31.4
80°	59.6	56.4	41.2	32.5	29.3	27.1	27.1	26.0	26.0	24.9	24.9
82.5°	42.3	45.5	31.4	23.8	21.7	20.6	20.6	19.5	19.5	17.3	17.3
85°	33.6	37.9	23.8	17.3	16.3	14.1	14.1	13.0	13.0	11.9	10.8
87.5°	9.8	20.6	9.8	6.5	6.5	6.5	6.5	5.4	5.4	4.3	4.3
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)