

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: P675687

Luminaire Tested: **CCW-SA-1A-735-U-SL4**

Issue Date: 04/25/2023

Test Information

Test Method: LM-79-08
Report Number: P675687
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-1A-735-U-SL4
Description: INVUE CLEAR CURVE Wall Pack MOUNT LIGHT SQUARE LUMINAIRE @350mA w/
SL4 distribution lens
Light Source: (16) 3500K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

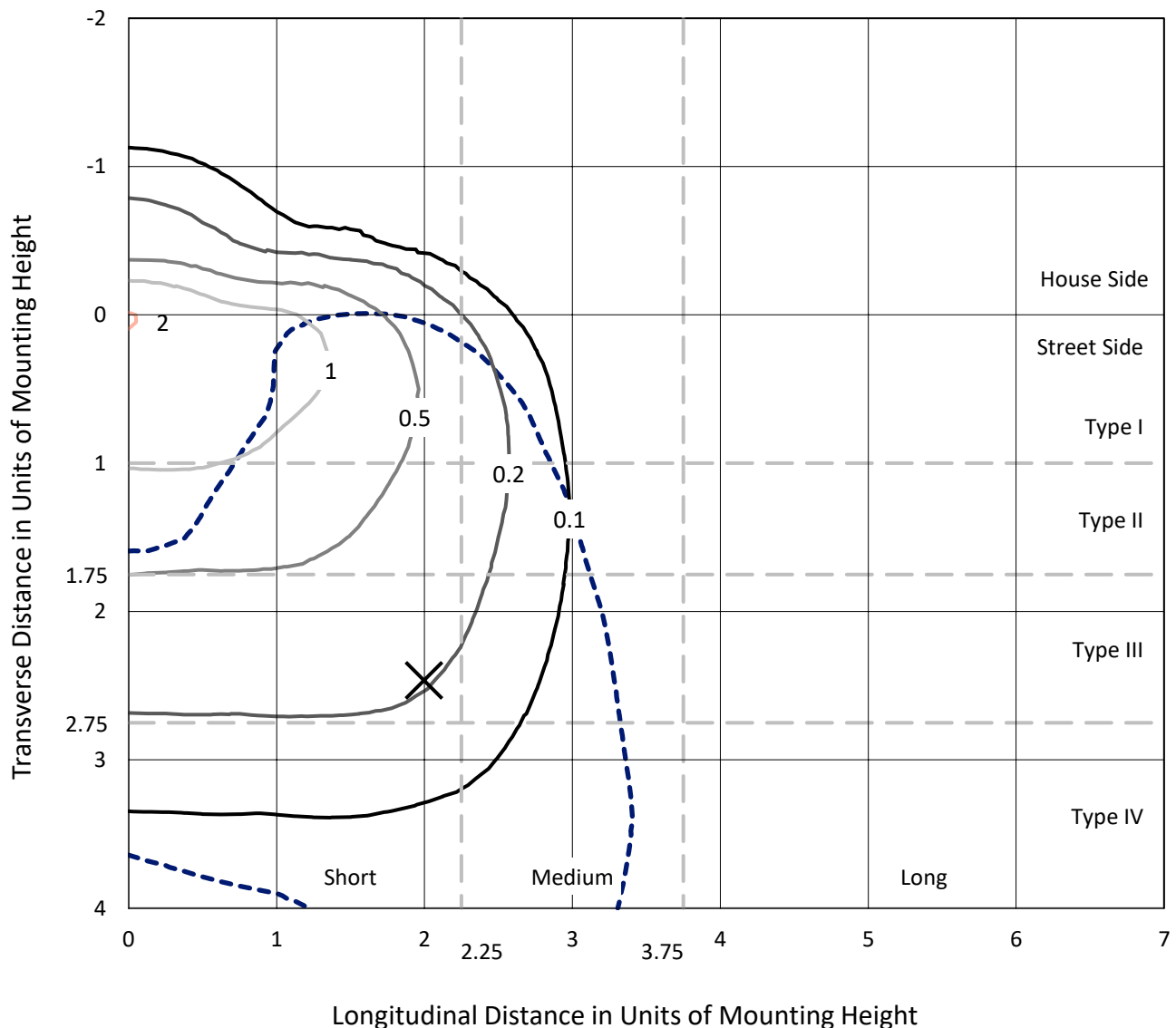
Lumens per Lamp: N/A
Luminaire Lumens: 2644.2 lumens
Efficiency: N/A
Efficacy: 146.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B0 - U0 - G1

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

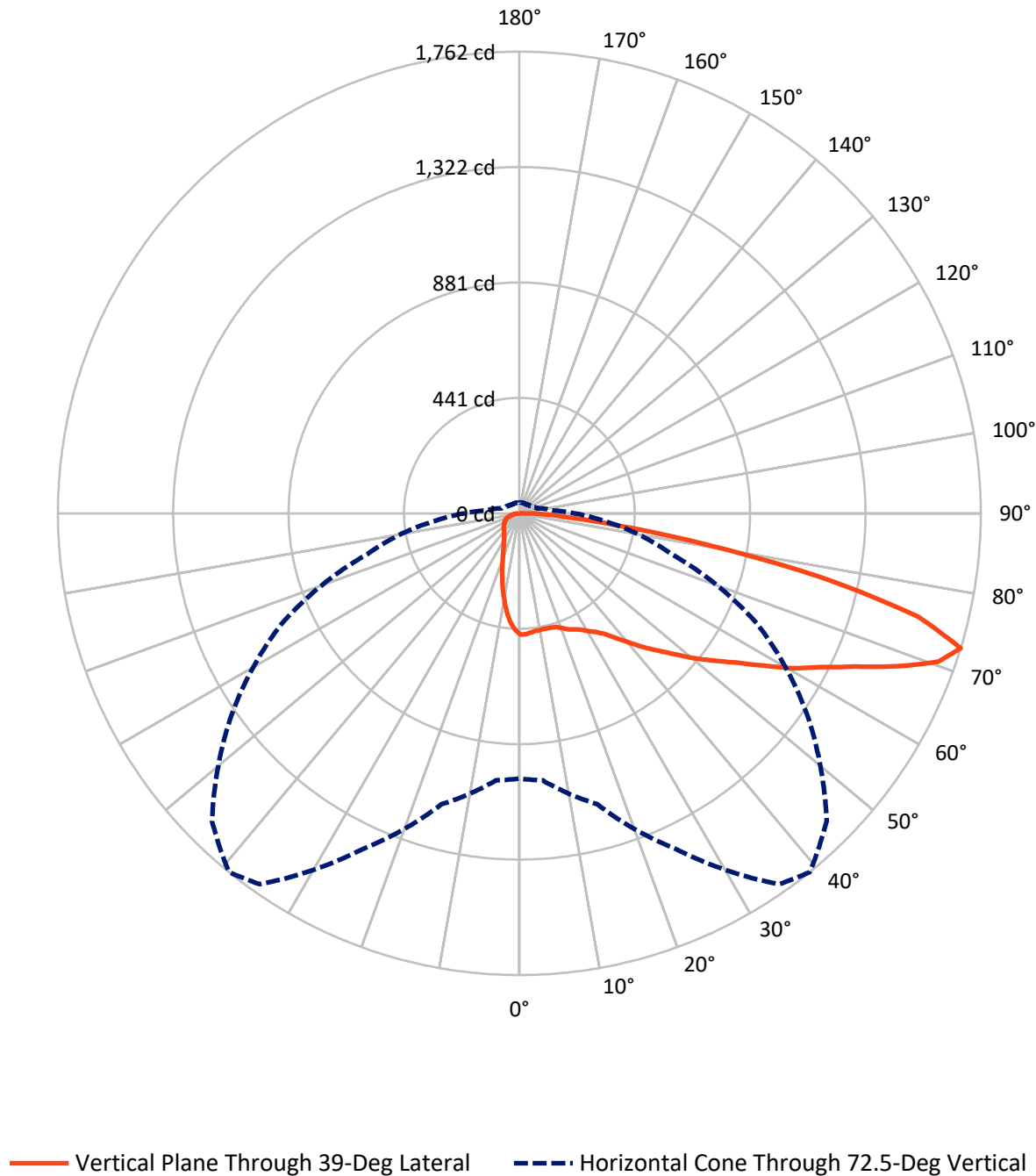
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 2.1 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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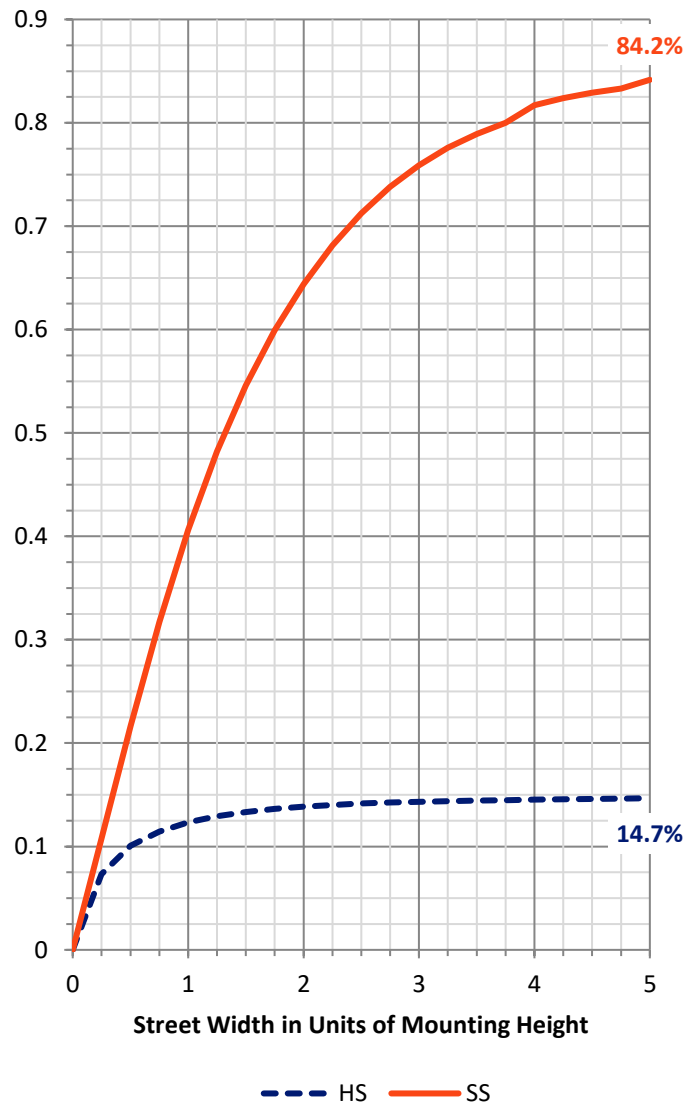
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	393.0	0.0	393.0
	% Fixture	14.9	0.0	14.9
Street Side	Lumens	2251.2	0.0	2251.2
	% Fixture	85.1	0.0	85.1
Total	Lumens	2644.2	0.0	2644.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	40.9	1.5
10°-20°	104.4	3.9
20°-30°	159.0	6.0
30°-40°	232.6	8.8
40°-50°	356.2	13.5
50°-60°	522.3	19.8
60°-70°	666.2	25.2
70°-80°	481.3	18.2
80°-90°	81.2	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°	2644.2	100.0
0°-180°	2644.2	100.0

Coefficient of Utilization



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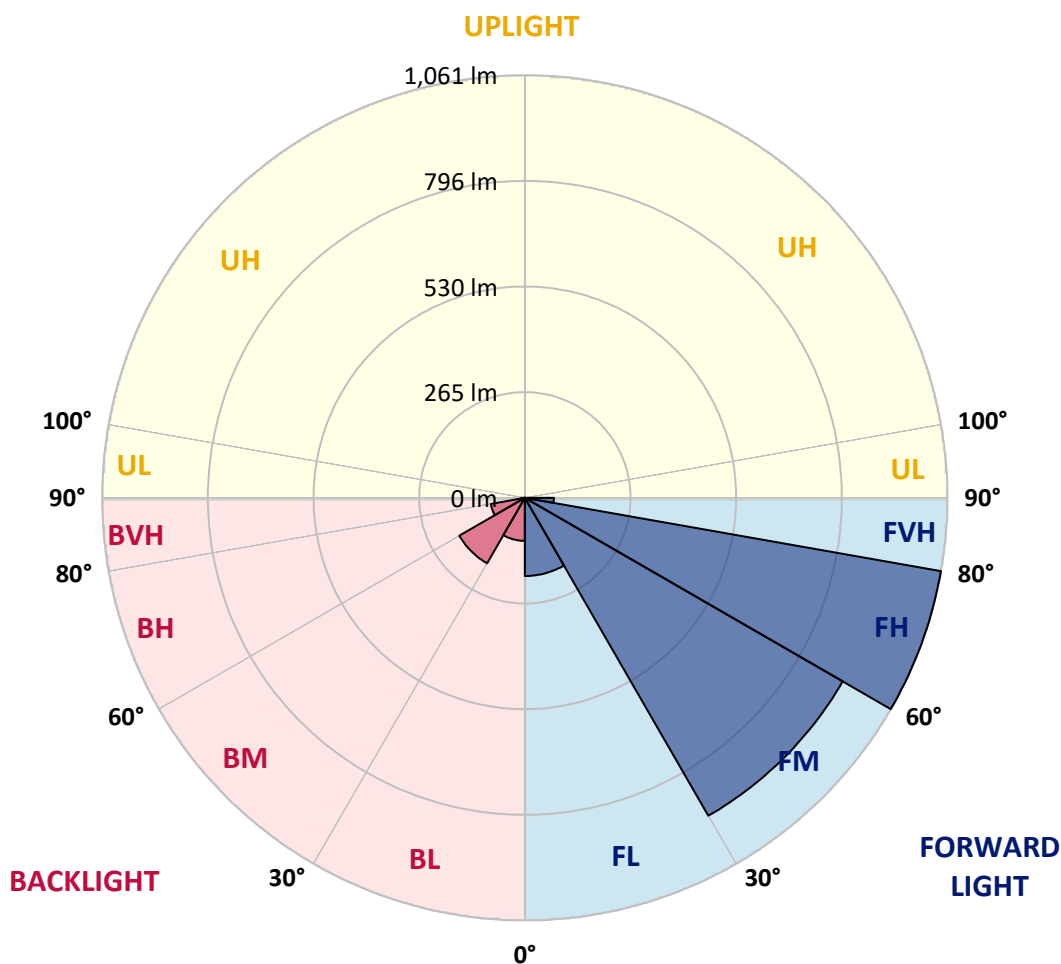
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	196.2	7.4			
FM	(30°-60°)	921.3	34.8			
FH	(60°-80°)	1060.7	40.1			G1/1800
FVH	(80°-90°)	73.0	2.8			G1/100
BL	(0°-30°)	108.1	4.1	B0/110		
BM	(30°-60°)	189.8	7.2	B0/220		
BH	(60°-80°)	86.8	3.3	B0/110		G0/110
BVH	(80°-90°)	8.2	0.3			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G1

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	462.8	462.8	462.8	462.8	462.8	462.8	462.8	462.8	462.8	462.8	462.8
2.5°	469.8	470.8	468.8	466.8	465.8	461.9	465.8	463.8	461.9	461.9	461.9
5°	463.8	464.8	464.8	462.8	463.8	456.9	455.9	456.9	453.9	451.9	450.9
7.5°	454.9	456.9	460.9	459.9	455.9	452.9	453.9	452.9	447.9	445.0	437.0
10°	447.9	449.9	451.9	453.9	452.9	451.9	450.9	447.0	446.0	439.0	431.1
12.5°	441.0	441.0	442.0	449.9	450.9	450.9	445.0	445.0	442.0	441.0	429.1
15°	434.0	437.0	445.0	447.0	450.9	452.9	449.9	449.9	445.0	438.0	429.1
17.5°	436.0	441.0	448.9	453.9	455.9	455.9	459.9	456.9	449.9	446.0	437.0
20°	446.0	447.0	456.9	465.8	467.8	467.8	463.8	460.9	455.9	448.9	437.0
22.5°	451.9	458.9	470.8	475.8	481.7	481.7	476.7	469.8	462.8	455.9	443.0
25°	477.7	478.7	483.7	491.6	494.6	490.7	485.7	477.7	468.8	461.9	449.9
27.5°	495.6	500.6	506.5	510.5	505.6	502.6	498.6	489.7	482.7	476.7	459.9
30°	528.4	522.4	526.4	528.4	519.5	521.4	510.5	502.6	494.6	494.6	475.8
32.5°	548.3	553.2	549.3	548.3	541.3	540.3	533.4	524.4	519.5	525.4	499.6
35°	583.0	580.0	580.0	579.1	571.1	566.1	566.1	550.2	555.2	568.1	536.3
37.5°	600.9	599.9	605.9	610.8	602.9	605.9	602.9	595.9	597.9	620.8	582.0
40°	618.8	625.7	637.7	639.6	644.6	648.6	646.6	645.6	653.5	690.3	643.6
42.5°	635.7	641.6	659.5	675.4	687.3	700.2	701.2	701.2	727.0	779.7	718.1
45°	657.5	662.5	687.3	719.1	739.0	747.9	755.8	764.8	799.5	862.1	797.6
47.5°	687.3	691.3	721.1	760.8	799.5	804.5	820.4	830.3	883.0	946.5	879.0
50°	730.0	727.0	750.9	808.5	846.2	870.1	892.9	910.8	962.4	1032.0	942.6
52.5°	764.8	764.8	782.7	859.1	910.8	933.6	957.5	982.3	1041.9	1117.4	994.2
55°	824.4	818.4	829.3	908.8	983.3	1005.1	1050.8	1071.7	1129.3	1180.9	1037.9
57.5°	865.1	868.1	881.0	974.4	1068.7	1095.5	1141.2	1156.1	1206.8	1247.5	1069.7
60°	918.7	908.8	936.6	1046.9	1163.1	1200.8	1238.6	1247.5	1285.2	1290.2	1084.6
62.5°	970.4	968.4	992.2	1119.4	1264.4	1291.2	1329.9	1339.9	1355.8	1324.0	1063.7
65°	1002.2	1015.1	1059.8	1198.8	1379.6	1409.4	1448.1	1428.3	1410.4	1294.2	961.4
67.5°	1045.9	1051.8	1120.4	1285.2	1512.7	1557.4	1591.2	1512.7	1379.6	1172.0	809.5
70°	1055.8	1071.7	1161.1	1375.6	1649.8	1695.4	1697.4	1483.9	1267.4	953.5	587.0
72.5°	1012.1	1023.0	1149.2	1413.4	1728.2	1762.0	1659.7	1341.9	1004.2	600.9	319.8
75°	851.2	882.0	1000.2	1297.2	1584.2	1571.3	1406.4	1024.0	602.9	266.2	135.1
77.5°	593.0	593.9	717.1	943.6	1185.9	1182.9	1003.2	593.9	258.2	107.3	79.5
80°	263.2	282.1	356.6	508.5	720.1	720.1	585.0	295.0	129.1	69.5	54.6
82.5°	154.9	160.9	190.7	237.4	350.6	369.5	280.1	196.7	88.4	43.7	33.8
85°	114.2	124.2	142.0	143.0	165.9	168.8	154.9	170.8	60.6	23.8	27.8
87.5°	85.4	91.4	113.2	94.4	88.4	83.4	95.3	174.8	22.8	11.9	8.9
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°	462.8	462.8	462.8	462.8	462.8	462.8	462.8	462.8	462.8	462.8	462.8
2.5°	457.9	457.9	455.9	451.9	451.9	444.0	446.0	447.9	443.0	443.0	444.0
5°	450.9	447.0	442.0	436.0	432.1	421.1	419.1	412.2	411.2	409.2	406.2
7.5°	437.0	431.1	422.1	413.2	400.3	390.3	378.4	368.5	364.5	361.5	360.5
10°	424.1	423.1	408.2	390.3	370.5	351.6	333.7	320.8	312.9	307.9	306.9
12.5°	424.1	416.2	395.3	370.5	341.7	313.9	291.0	273.1	262.2	254.3	251.3
15°	422.1	414.2	386.4	348.6	315.8	278.1	246.3	227.4	211.6	203.6	204.6
17.5°	424.1	412.2	373.5	332.7	287.0	246.3	208.6	185.7	169.8	163.9	162.9
20°	425.1	410.2	363.5	310.9	257.2	211.6	175.8	154.0	142.0	138.1	138.1
22.5°	423.1	404.2	348.6	285.1	231.4	182.8	153.0	134.1	126.1	121.2	123.2
25°	432.1	403.3	334.7	263.2	201.6	158.9	136.1	122.2	117.2	114.2	115.2
27.5°	434.0	403.3	323.8	238.4	175.8	141.0	123.2	114.2	110.2	108.3	107.3
30°	442.0	405.2	310.9	213.5	154.9	127.1	113.2	108.3	105.3	104.3	104.3
32.5°	463.8	411.2	297.0	192.7	137.1	115.2	106.3	102.3	100.3	99.3	100.3
35°	489.7	427.1	282.1	170.8	124.2	107.3	100.3	97.3	96.3	96.3	96.3
37.5°	529.4	450.9	269.2	153.0	113.2	99.3	94.4	93.4	92.4	93.4	93.4
40°	575.1	476.7	257.2	139.1	105.3	94.4	89.4	89.4	88.4	89.4	90.4
42.5°	627.7	508.5	245.3	125.1	98.3	90.4	86.4	85.4	84.4	86.4	87.4
45°	700.2	552.2	237.4	117.2	93.4	86.4	82.4	82.4	81.4	81.4	83.4
47.5°	760.8	593.9	237.4	109.3	90.4	83.4	79.5	79.5	77.5	78.5	78.5
50°	811.5	629.7	242.3	107.3	86.4	80.5	77.5	75.5	74.5	74.5	74.5
52.5°	845.2	651.6	246.3	105.3	84.4	76.5	74.5	73.5	71.5	70.5	71.5
55°	879.0	666.5	247.3	105.3	81.4	72.5	70.5	70.5	68.5	67.5	67.5
57.5°	891.9	660.5	233.4	103.3	79.5	69.5	67.5	66.5	65.6	64.6	64.6
60°	886.0	638.6	202.6	98.3	77.5	67.5	63.6	63.6	63.6	61.6	62.6
62.5°	845.2	564.2	162.9	90.4	74.5	63.6	59.6	61.6	61.6	60.6	60.6
65°	738.0	465.8	132.1	83.4	70.5	60.6	56.6	59.6	60.6	59.6	58.6
67.5°	590.0	358.6	109.3	75.5	65.6	55.6	52.6	55.6	56.6	55.6	55.6
70°	405.2	231.4	88.4	67.5	58.6	50.7	47.7	49.7	49.7	50.7	50.7
72.5°	209.6	125.1	72.5	57.6	50.7	45.7	42.7	42.7	41.7	41.7	41.7
75°	104.3	85.4	60.6	48.7	42.7	38.7	36.7	34.8	34.8	34.8	34.8
77.5°	72.5	65.6	49.7	38.7	34.8	31.8	31.8	28.8	28.8	28.8	28.8
80°	54.6	51.6	37.7	29.8	26.8	24.8	24.8	23.8	23.8	22.8	22.8
82.5°	38.7	41.7	28.8	21.9	19.9	18.9	18.9	17.9	17.9	15.9	15.9
85°	30.8	34.8	21.9	15.9	14.9	12.9	12.9	11.9	11.9	10.9	9.9
87.5°	8.9	18.9	8.9	6.0	6.0	6.0	6.0	5.0	5.0	4.0	4.0
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)