

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: P671600

Luminaire Tested: **CCP-SA-1A-840-U-SL4**

Issue Date: 04/16/2023

Test Information

Test Method: LM-79-08
Report Number: P671600
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/16/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCP-SA-1A-840-U-SL4
Description: INVUE CLEAR CURVE POLE MOUNT LIGHT SQUARE LUMINAIRE @350mA w/ SL4
distribution lens
Light Source: (16) 4000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2285.7 lumens
Efficiency: N/A
Efficacy: 127.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B0 - U0 - G1

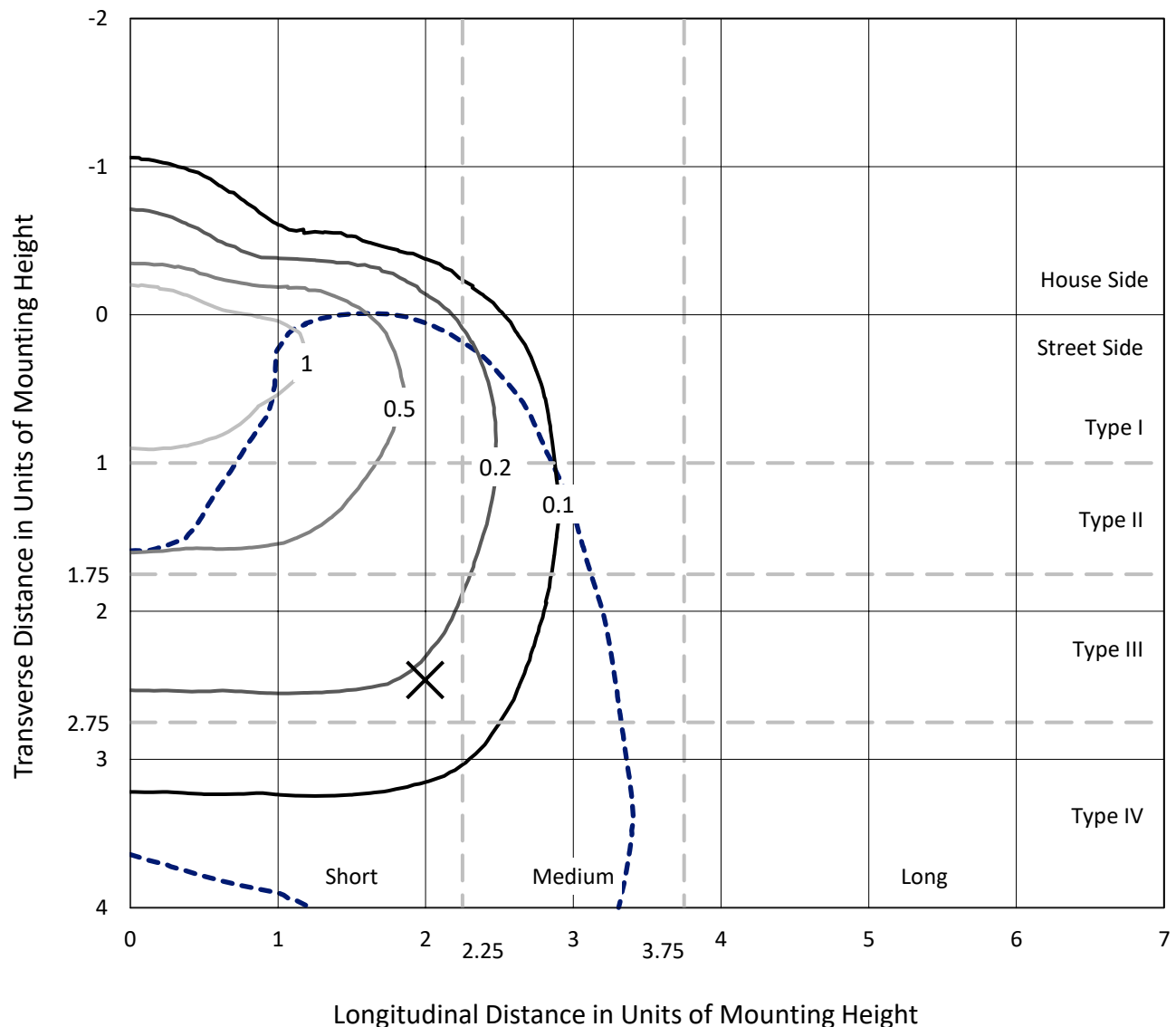
Input Watts (W): 18
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT

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Iso-Footcandle Lines of Horizontal Illumination

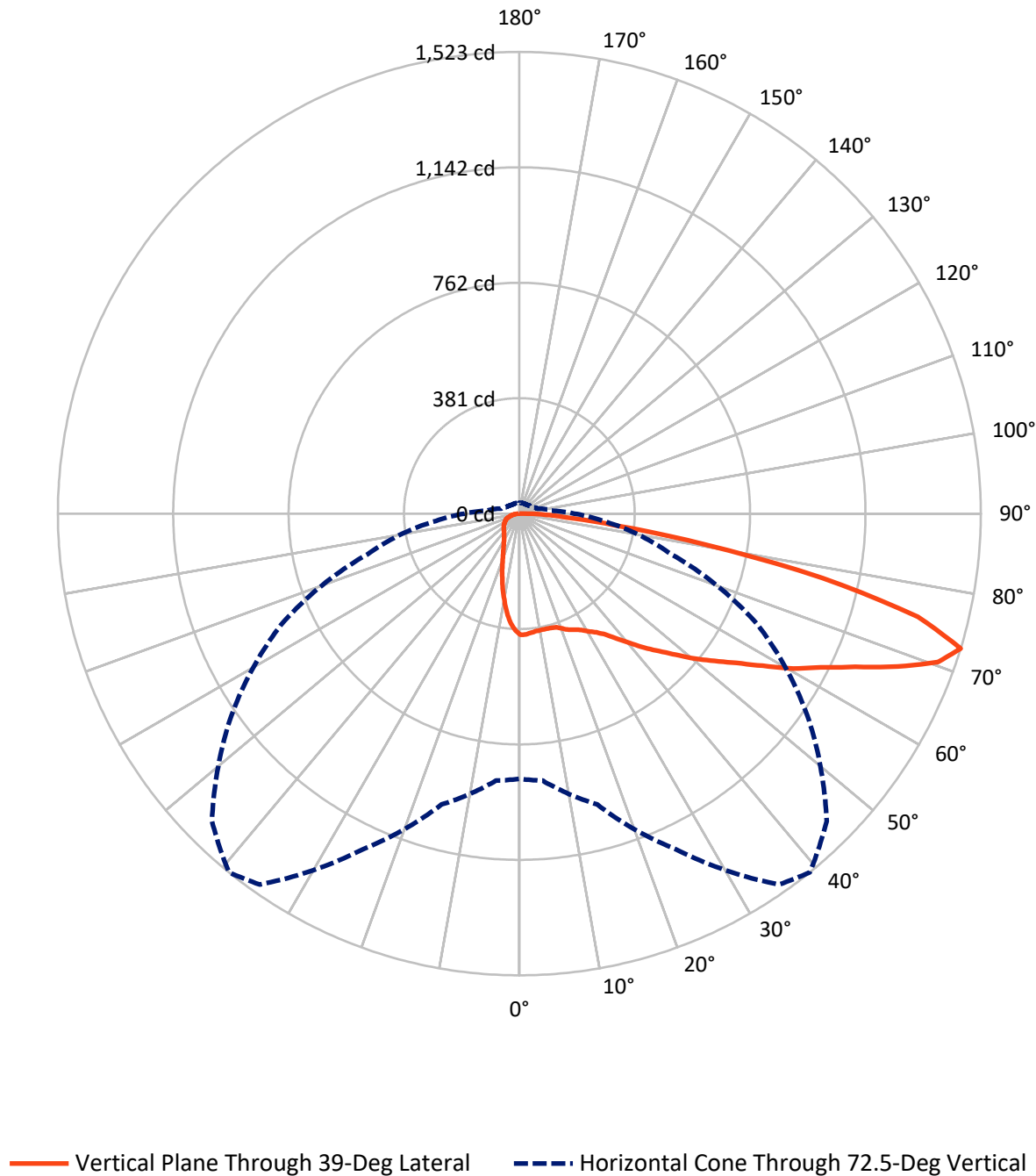
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 1.8 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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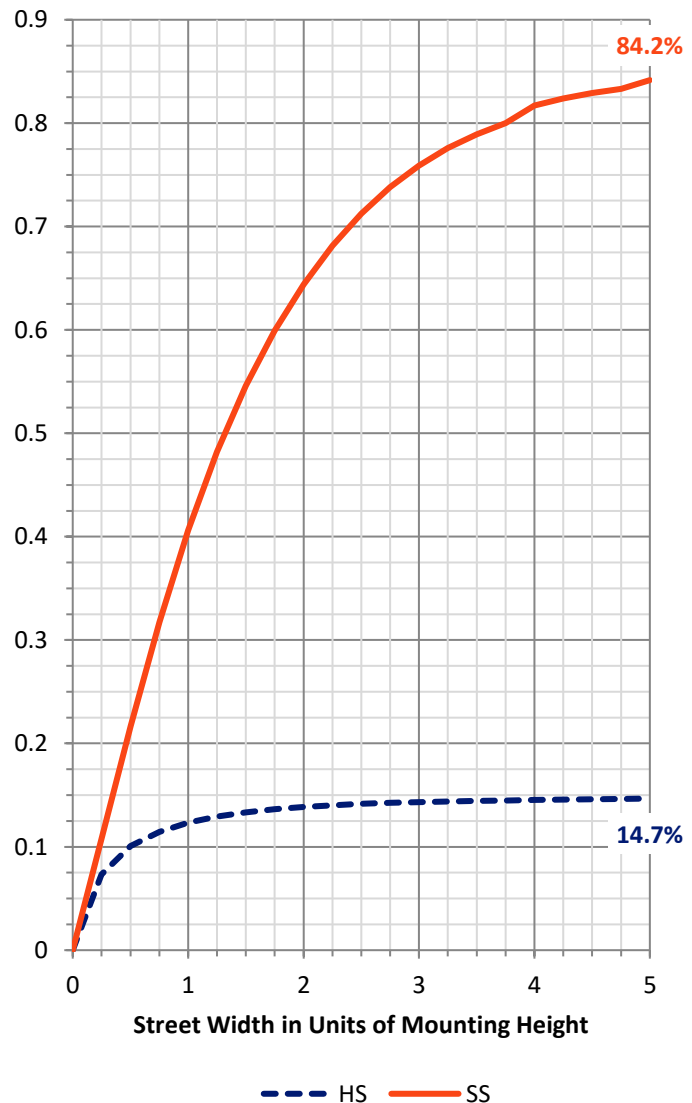
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	339.7	0.0	339.7
	% Fixture	14.9	0.0	14.9
Street Side	Lumens	1946.0	0.0	1946.0
	% Fixture	85.1	0.0	85.1
Total	Lumens	2285.7	0.0	2285.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	35.3	1.5
10°-20°	90.2	3.9
20°-30°	137.5	6.0
30°-40°	201.1	8.8
40°-50°	307.9	13.5
50°-60°	451.5	19.8
60°-70°	575.9	25.2
70°-80°	416.1	18.2
80°-90°	70.2	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°	2285.7	100.0
0°-180°	2285.7	100.0

Coefficient of Utilization



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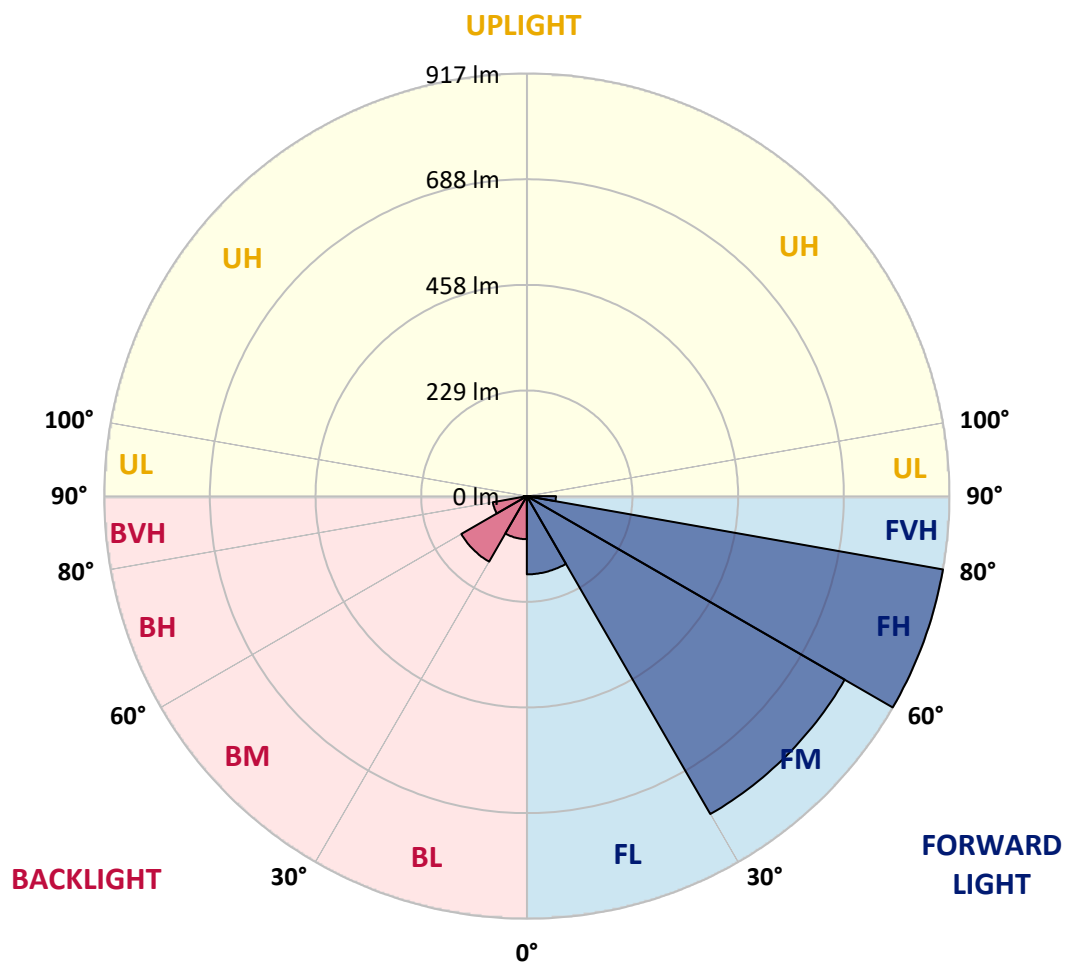
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	169.6	7.4			
FM	(30°-60°)	796.4	34.8			
FH	(60°-80°)	916.9	40.1			G1/1800
FVH	(80°-90°)	63.1	2.8			G1/100
BL	(0°-30°)	93.4	4.1	B0/110		
BM	(30°-60°)	164.1	7.2	B0/220		
BH	(60°-80°)	75.1	3.3	B0/110		G0/110
BVH	(80°-90°)	7.1	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°	400.1	400.1	400.1	400.1	400.1	400.1	400.1	400.1	400.1	400.1	400.1
2.5°	406.1	407.0	405.3	403.5	402.7	399.2	402.7	401.0	399.2	399.2	399.2
5°	401.0	401.8	401.8	400.1	401.0	395.0	394.1	395.0	392.4	390.7	389.8
7.5°	393.2	395.0	398.4	397.5	394.1	391.5	392.4	391.5	387.2	384.6	377.8
10°	387.2	388.9	390.7	392.4	391.5	390.7	389.8	386.4	385.5	379.5	372.6
12.5°	381.2	381.2	382.1	388.9	389.8	389.8	384.6	384.6	382.1	381.2	370.9
15°	375.2	377.8	384.6	386.4	389.8	391.5	388.9	388.9	384.6	378.6	370.9
17.5°	376.9	381.2	388.1	392.4	394.1	394.1	397.5	395.0	388.9	385.5	377.8
20°	385.5	386.4	395.0	402.7	404.4	404.4	401.0	398.4	394.1	388.1	377.8
22.5°	390.7	396.7	407.0	411.3	416.4	416.4	412.1	406.1	400.1	394.1	382.9
25°	413.0	413.8	418.1	425.0	427.6	424.1	419.8	413.0	405.3	399.2	388.9
27.5°	428.4	432.7	437.9	441.3	437.0	434.4	431.0	423.3	417.3	412.1	397.5
30°	456.8	451.6	455.1	456.8	449.0	450.8	441.3	434.4	427.6	427.6	411.3
32.5°	473.9	478.2	474.8	473.9	467.9	467.1	461.1	453.3	449.0	454.2	431.9
35°	504.0	501.4	501.4	500.6	493.7	489.4	489.4	475.7	480.0	491.1	463.6
37.5°	519.4	518.6	523.7	528.0	521.2	523.7	521.2	515.2	516.9	536.6	503.1
40°	534.9	540.9	551.2	552.9	557.2	560.7	558.9	558.1	565.0	596.7	556.4
42.5°	549.5	554.6	570.1	583.8	594.1	605.3	606.2	606.2	628.5	674.0	620.8
45°	568.4	572.7	594.1	621.6	638.8	646.5	653.4	661.1	691.2	745.3	689.4
47.5°	594.1	597.6	623.3	657.7	691.2	695.5	709.2	717.8	763.3	818.2	759.9
50°	631.1	628.5	649.1	698.9	731.5	752.1	771.9	787.3	832.0	892.1	814.8
52.5°	661.1	661.1	676.6	742.7	787.3	807.1	827.7	849.1	900.7	965.9	859.4
55°	712.6	707.5	716.9	785.6	850.0	868.9	908.4	926.4	976.2	1020.9	897.2
57.5°	747.8	750.4	761.6	842.3	923.8	947.0	986.5	999.4	1043.2	1078.4	924.7
60°	794.2	785.6	809.6	905.0	1005.4	1038.0	1070.7	1078.4	1111.0	1115.3	937.6
62.5°	838.8	837.1	857.7	967.6	1093.0	1116.2	1149.6	1158.2	1172.0	1144.5	919.5
65°	866.3	877.5	916.1	1036.3	1192.6	1218.3	1251.8	1234.6	1219.2	1118.7	831.1
67.5°	904.1	909.2	968.5	1111.0	1307.6	1346.3	1375.5	1307.6	1192.6	1013.1	699.7
70°	912.7	926.4	1003.7	1189.1	1426.1	1465.6	1467.3	1282.7	1095.6	824.2	507.4
72.5°	874.9	884.3	993.4	1221.8	1493.9	1523.1	1434.7	1160.0	868.0	519.4	276.5
75°	735.8	762.4	864.6	1121.3	1369.4	1358.3	1215.8	885.2	521.2	230.1	116.8
77.5°	512.6	513.4	619.9	815.7	1025.2	1022.6	867.2	513.4	223.2	92.7	68.7
80°	227.5	243.8	308.2	439.6	622.5	622.5	505.7	255.0	111.6	60.1	47.2
82.5°	133.9	139.1	164.8	205.2	303.1	319.4	242.1	170.0	76.4	37.8	29.2
85°	98.7	107.3	122.8	123.6	143.4	146.0	133.9	147.7	52.4	20.6	24.0
87.5°	73.8	79.0	97.9	81.6	76.4	72.1	82.4	151.1	19.7	10.3	7.7
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°	400.1	400.1	400.1	400.1	400.1	400.1	400.1	400.1	400.1	400.1	400.1
2.5°	395.8	395.8	394.1	390.7	390.7	383.8	385.5	387.2	382.9	382.9	383.8
5°	389.8	386.4	382.1	376.9	373.5	364.0	362.3	356.3	355.5	353.7	351.2
7.5°	377.8	372.6	364.9	357.2	346.0	337.4	327.1	318.5	315.1	312.5	311.7
10°	366.6	365.8	352.9	337.4	320.3	303.9	288.5	277.3	270.5	266.2	265.3
12.5°	366.6	359.7	341.7	320.3	295.4	271.3	251.6	236.1	226.7	219.8	217.2
15°	364.9	358.0	334.0	301.4	273.0	240.4	212.9	196.6	182.9	176.0	176.9
17.5°	366.6	356.3	322.8	287.6	248.1	212.9	180.3	160.6	146.8	141.7	140.8
20°	367.5	354.6	314.2	268.7	222.4	182.9	152.0	133.1	122.8	119.3	119.3
22.5°	365.8	349.4	301.4	246.4	200.1	158.0	132.2	115.9	109.0	104.7	106.5
25°	373.5	348.6	289.3	227.5	174.3	137.4	117.6	105.6	101.3	98.7	99.6
27.5°	375.2	348.6	279.9	206.1	152.0	121.9	106.5	98.7	95.3	93.6	92.7
30°	382.1	350.3	268.7	184.6	133.9	109.9	97.9	93.6	91.0	90.2	90.2
32.5°	401.0	355.5	256.7	166.6	118.5	99.6	91.9	88.4	86.7	85.9	86.7
35°	423.3	369.2	243.8	147.7	107.3	92.7	86.7	84.1	83.3	83.3	83.3
37.5°	457.6	389.8	232.7	132.2	97.9	85.9	81.6	80.7	79.8	80.7	80.7
40°	497.1	412.1	222.4	120.2	91.0	81.6	77.3	77.3	76.4	77.3	78.1
42.5°	542.6	439.6	212.1	108.2	85.0	78.1	74.7	73.8	73.0	74.7	75.6
45°	605.3	477.4	205.2	101.3	80.7	74.7	71.3	71.3	70.4	70.4	72.1
47.5°	657.7	513.4	205.2	94.4	78.1	72.1	68.7	68.7	67.0	67.8	67.8
50°	701.5	544.3	209.5	92.7	74.7	69.5	67.0	65.3	64.4	64.4	64.4
52.5°	730.7	563.2	212.9	91.0	73.0	66.1	64.4	63.5	61.8	61.0	61.8
55°	759.9	576.1	213.8	91.0	70.4	62.7	61.0	61.0	59.2	58.4	58.4
57.5°	771.0	571.0	201.8	89.3	68.7	60.1	58.4	57.5	56.7	55.8	55.8
60°	765.9	552.1	175.2	85.0	67.0	58.4	54.9	54.9	54.9	53.2	54.1
62.5°	730.7	487.7	140.8	78.1	64.4	54.9	51.5	53.2	53.2	52.4	52.4
65°	637.9	402.7	114.2	72.1	61.0	52.4	48.9	51.5	52.4	51.5	50.7
67.5°	510.0	310.0	94.4	65.3	56.7	48.1	45.5	48.1	48.9	48.1	48.1
70°	350.3	200.1	76.4	58.4	50.7	43.8	41.2	42.9	42.9	43.8	43.8
72.5°	181.2	108.2	62.7	49.8	43.8	39.5	36.9	36.9	36.1	36.1	36.1
75°	90.2	73.8	52.4	42.1	36.9	33.5	31.8	30.1	30.1	30.1	30.1
77.5°	62.7	56.7	42.9	33.5	30.1	27.5	27.5	24.9	24.9	24.9	24.9
80°	47.2	44.6	32.6	25.8	23.2	21.5	21.5	20.6	20.6	19.7	19.7
82.5°	33.5	36.1	24.9	18.9	17.2	16.3	16.3	15.5	15.5	13.7	13.7
85°	26.6	30.1	18.9	13.7	12.9	11.2	11.2	10.3	10.3	9.4	8.6
87.5°	7.7	16.3	7.7	5.2	5.2	5.2	5.2	4.3	4.3	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)