

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: P674448

Luminaire Tested: **CCP-SA-1B-827-U-AFL-HSS**

Issue Date: 04/16/2023



Test Information

Test Method: LM-79-08
Report Number: P674448
Test Lab: INNOVATION CENTER(G2)
Issue Date: 04/16/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCP-SA-1B-827-U-AFL-HSS
Description: INVUE CLEAR CURVE POLE MOUNT Light Square Luminaire @450mA w/ AFL distribution lens and House Side Shield
Light Source: (16) 2700K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

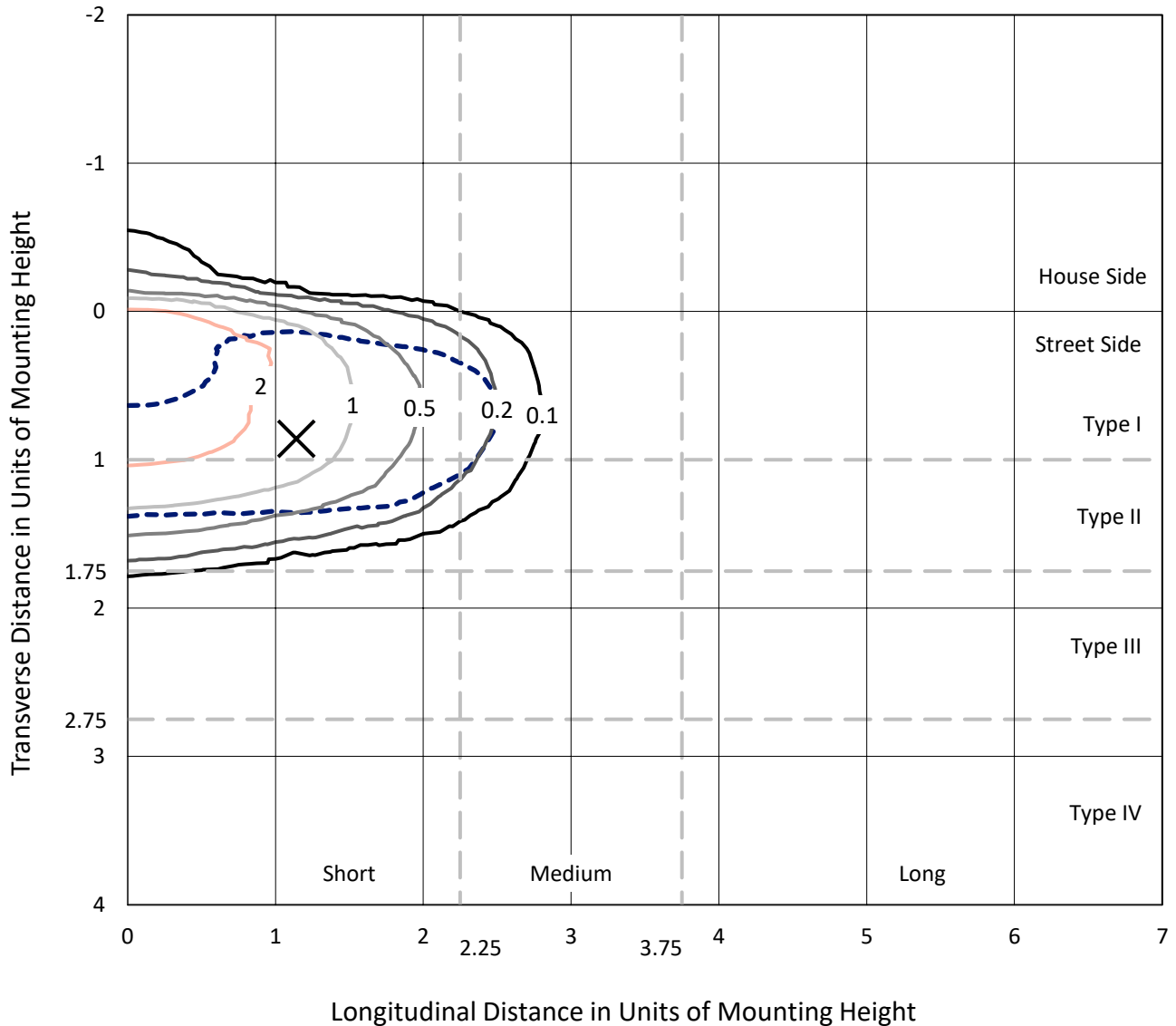
Lumens per Lamp: N/A
Luminaire Lumens: 2105.3 lumens
Efficiency: N/A
Efficacy: 87.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B0 - U0 - G0

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

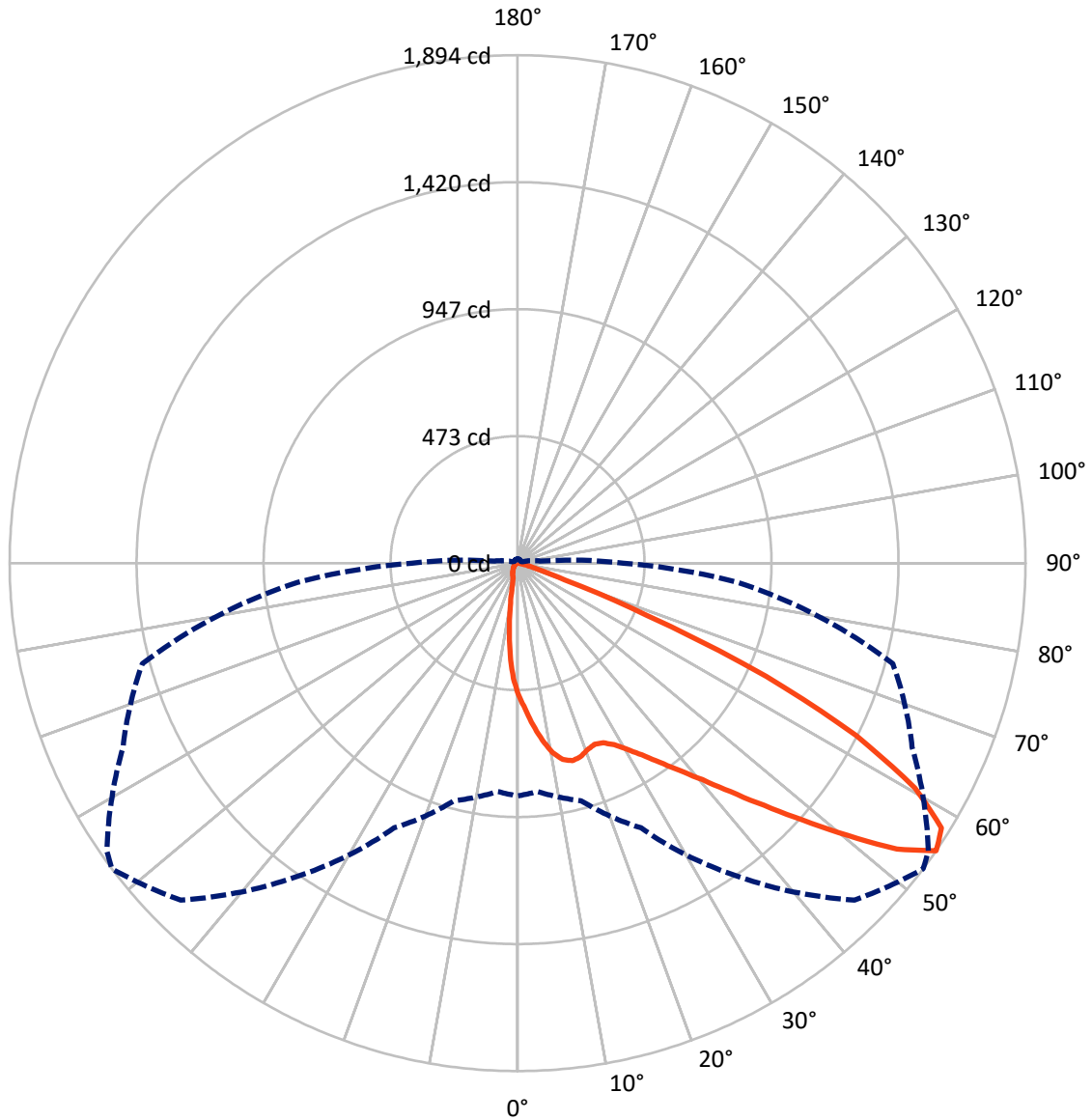
✕ Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 3.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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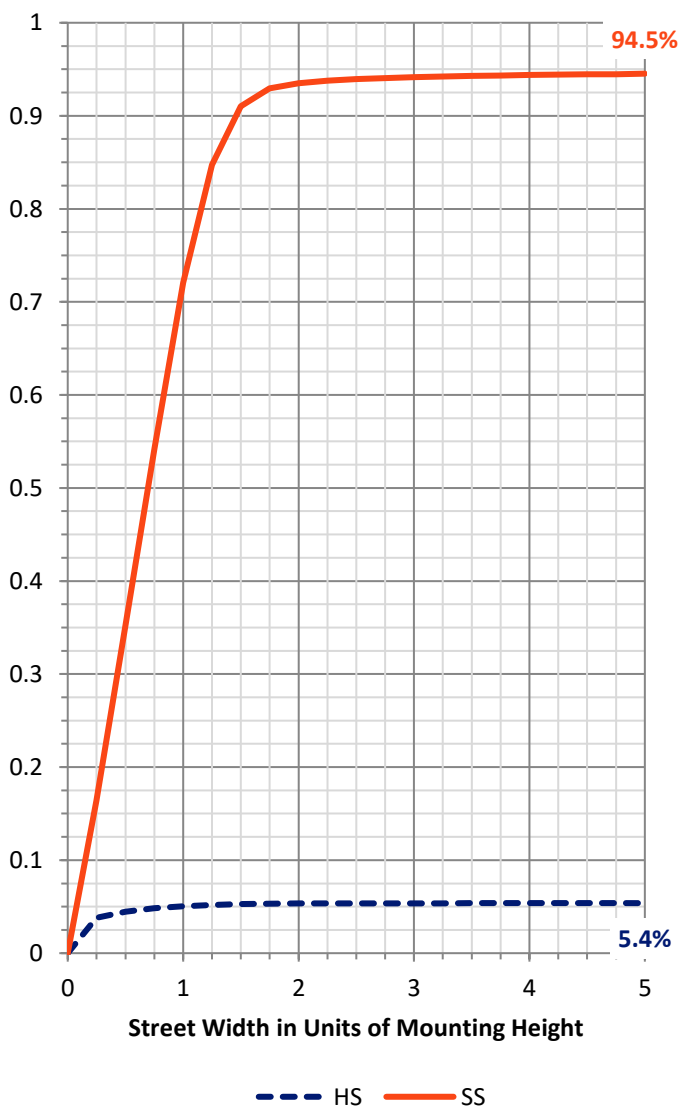
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	113.8	0.0	113.8
	% Fixture	5.4	0.0	5.4
Street Side	Lumens	1991.5	0.0	1991.5
	% Fixture	94.6	0.0	94.6
Total	Lumens	2105.3	0.0	2105.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	44.0	2.1
10°-20°	115.1	5.5
20°-30°	192.6	9.2
30°-40°	315.2	15.0
40°-50°	506.6	24.1
50°-60°	572.0	27.2
60°-70°	305.1	14.5
70°-80°	50.1	2.4
80°-90°	4.5	0.2
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°	2105.3	100.0
0°-180°	2105.3	100.0



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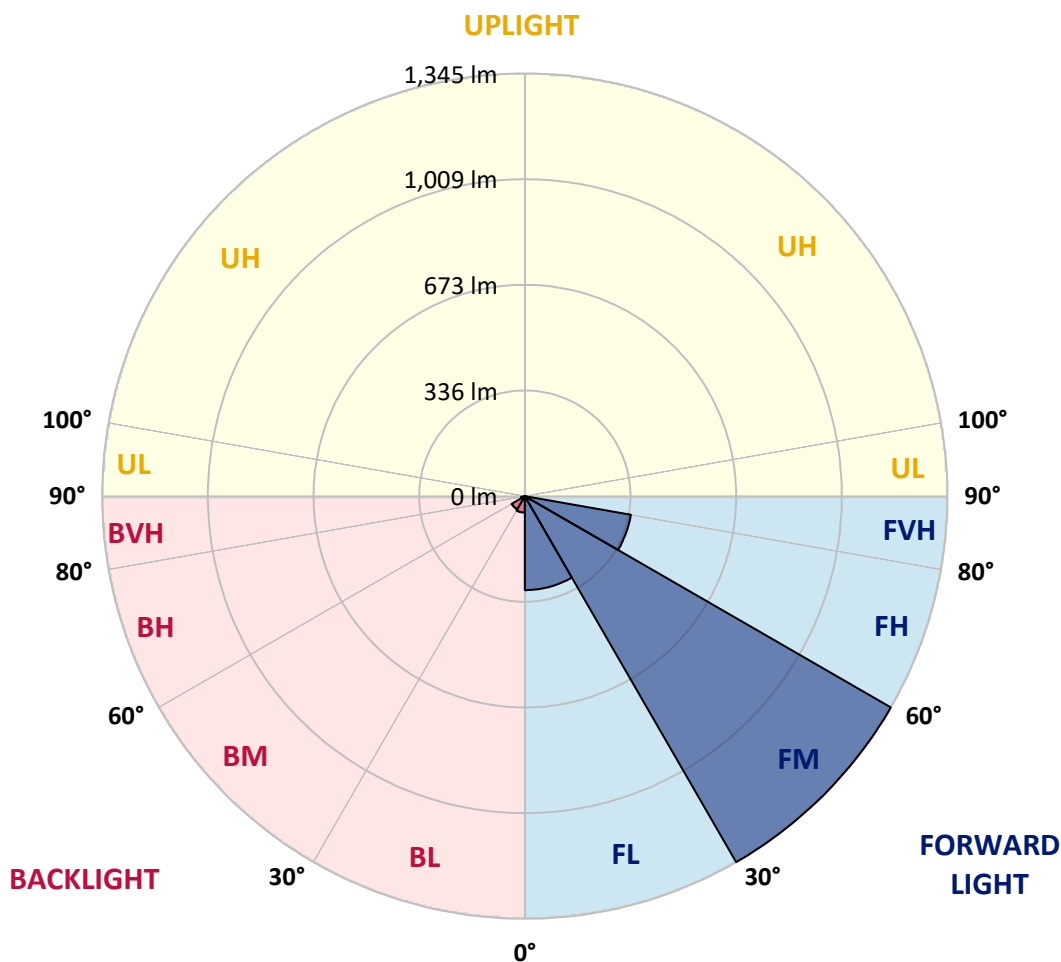
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	299.3	14.2			
FM (30°-60°)	1345.3	63.9			
FH (60°-80°)	342.8	16.3			G0/660
FVH (80°-90°)	4.1	0.2			G0/10
BL (0°-30°)	52.5	2.5	B0/110		
BM (30°-60°)	48.5	2.3	B0/220		
BH (60°-80°)	12.4	0.6	B0/110		G0/110
BVH (80°-90°)	0.4	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G0

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	492.7	492.7	492.7	492.7	492.7	492.7	492.7	492.7	492.7	492.7	492.7
2.5°	590.8	587.3	589.3	584.0	574.2	562.0	543.8	544.7	530.3	517.8	500.4
5°	688.4	684.7	683.6	669.9	656.3	634.3	607.2	602.8	576.4	544.5	508.2
7.5°	739.9	736.7	739.1	734.1	720.7	700.7	666.4	663.1	622.4	574.0	520.5
10°	716.2	715.1	725.3	737.1	748.0	745.6	718.1	712.9	667.2	606.5	533.3
12.5°	652.8	656.3	669.2	691.0	724.5	756.1	751.7	752.6	712.9	641.7	547.3
15°	615.5	619.8	627.2	638.4	679.7	735.8	764.4	773.6	756.8	681.0	563.9
17.5°	612.4	615.9	617.0	621.2	645.4	703.1	759.2	776.7	795.9	718.1	582.5
20°	636.6	638.0	637.1	634.0	642.6	685.4	743.0	768.1	828.2	757.6	598.9
22.5°	682.1	679.9	677.1	665.5	665.0	690.4	734.1	760.3	847.4	790.2	609.8
25°	738.6	734.0	730.1	713.7	705.9	716.4	742.1	763.1	864.7	821.9	617.6
27.5°	800.2	801.6	792.1	769.9	757.7	755.5	766.6	782.3	881.5	850.3	621.8
30°	866.0	866.8	854.2	831.3	820.3	806.1	805.3	814.7	899.6	883.0	625.9
32.5°	941.1	943.1	922.7	898.9	879.5	861.0	852.0	859.9	932.1	925.6	634.2
35°	1049.6	1040.7	1013.0	977.1	949.6	925.4	911.6	916.7	975.2	976.7	650.8
37.5°	1161.3	1160.4	1129.8	1078.0	1033.0	1002.9	979.3	987.8	1035.9	1045.1	677.3
40°	1265.6	1268.0	1241.4	1196.2	1138.3	1086.6	1061.4	1067.1	1116.5	1128.1	709.6
42.5°	1333.6	1332.3	1334.4	1321.4	1263.3	1202.5	1164.5	1167.6	1210.2	1216.3	750.0
45°	1365.0	1360.0	1377.3	1418.3	1395.2	1331.2	1287.9	1284.0	1307.4	1305.8	786.7
47.5°	1337.9	1328.6	1368.5	1467.2	1511.8	1492.4	1430.5	1423.4	1403.5	1390.2	824.9
50°	1203.0	1199.0	1284.2	1443.9	1585.0	1641.5	1595.9	1569.9	1489.3	1452.6	845.0
52.5°	1074.8	1063.6	1121.1	1325.3	1552.4	1761.4	1770.8	1724.5	1560.5	1470.5	838.2
55°	868.2	854.4	917.1	1088.8	1423.1	1776.7	1893.6	1869.5	1622.8	1448.4	824.3
57.5°	527.4	513.7	605.9	779.9	1138.1	1649.4	1863.4	1887.9	1670.8	1424.0	815.3
60°	221.7	213.0	249.2	372.2	726.8	1355.6	1702.9	1764.1	1679.8	1390.6	819.0
62.5°	115.3	111.4	113.4	149.0	293.8	892.6	1417.4	1524.0	1588.7	1375.9	822.7
65°	86.5	83.6	77.1	81.9	114.2	385.9	1018.6	1161.3	1391.2	1338.4	797.8
67.5°	71.0	68.2	63.6	62.2	67.3	133.9	520.0	705.5	1090.1	1178.9	708.5
70°	56.6	55.7	54.2	51.5	50.5	64.9	186.5	287.6	720.9	831.3	513.5
72.5°	47.2	47.4	45.7	43.3	40.0	41.9	74.3	98.3	348.8	398.6	215.1
75°	39.5	39.5	40.0	36.7	33.4	28.8	41.3	48.0	112.0	92.0	45.9
77.5°	31.0	31.4	33.8	31.0	26.7	18.1	22.5	25.6	33.2	26.6	16.8
80°	24.7	24.3	23.4	27.9	24.0	12.7	10.7	11.8	15.5	12.7	8.3
82.5°	17.3	17.2	16.4	18.8	18.6	9.4	7.0	7.2	9.4	8.1	5.2
85°	4.2	5.0	10.5	8.9	7.7	5.5	4.2	4.6	6.1	5.3	2.8
87.5°	1.8	1.8	4.8	5.7	3.7	2.4	1.8	2.0	3.1	3.1	1.7
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°	492.7	492.7	492.7	492.7	492.7	492.7	492.7	492.7	492.7	492.7	492.7
2.5°	494.3	482.4	467.2	451.2	434.8	415.0	402.5	392.2	384.0	377.8	375.6
5°	496.2	473.1	438.8	396.2	352.9	312.3	280.9	257.7	238.5	228.0	223.4
7.5°	496.0	465.4	403.4	332.0	261.6	203.1	161.6	135.9	118.8	111.8	107.5
10°	495.8	455.2	363.0	260.8	174.9	117.7	86.7	72.3	66.0	63.6	63.3
12.5°	501.2	443.6	317.8	192.0	109.8	73.2	60.3	57.0	55.5	54.8	54.6
15°	504.1	432.9	270.2	135.6	74.0	57.9	53.9	52.4	51.8	51.5	51.3
17.5°	507.3	416.3	225.0	98.1	59.2	52.6	50.2	49.2	48.9	48.9	48.9
20°	507.8	398.4	180.2	72.3	52.6	49.1	46.7	45.7	45.2	44.8	44.8
22.5°	503.8	377.2	141.7	58.7	48.7	45.7	43.2	41.7	40.8	40.6	40.6
25°	493.6	347.1	108.6	51.5	45.6	42.4	39.3	37.6	36.9	36.9	36.9
27.5°	479.0	311.7	83.9	45.7	41.5	38.4	35.6	34.1	33.9	33.8	33.9
30°	462.4	277.6	64.2	40.6	36.7	34.1	31.9	31.2	31.5	31.5	31.7
32.5°	445.8	243.5	50.2	36.5	32.5	30.3	29.1	29.1	29.7	29.7	29.7
35°	431.6	210.1	42.1	33.2	29.5	27.7	27.1	27.7	28.0	28.2	28.2
37.5°	423.7	181.3	37.1	30.3	27.1	25.6	25.5	26.0	26.7	27.3	27.5
40°	420.7	159.2	34.1	28.0	24.9	24.0	23.8	24.5	25.8	26.7	26.9
42.5°	420.9	139.6	31.5	25.8	23.4	22.1	22.1	23.2	24.5	25.5	25.5
45°	422.2	122.8	29.0	23.6	22.1	19.9	20.1	21.6	22.5	23.4	23.4
47.5°	423.3	109.4	26.2	21.2	19.2	18.1	18.4	19.6	20.8	22.3	22.3
50°	416.9	99.8	23.4	18.6	16.8	16.4	17.2	18.1	19.9	21.4	21.6
52.5°	401.4	91.1	21.0	16.6	15.1	15.3	16.2	16.8	18.3	18.4	18.6
55°	394.6	86.7	19.2	15.1	13.8	14.4	14.9	15.1	14.8	13.8	13.8
57.5°	393.1	83.7	17.3	13.6	12.7	13.5	13.3	12.2	11.1	10.0	9.8
60°	394.6	79.7	15.9	11.8	11.6	11.8	11.3	9.2	7.7	7.0	6.6
62.5°	386.1	73.8	14.6	10.1	10.1	10.0	8.5	6.3	5.0	4.4	4.2
65°	358.0	62.2	13.3	8.5	8.3	7.9	5.7	4.2	3.3	2.8	2.6
67.5°	302.9	48.1	12.0	7.0	6.6	5.5	3.7	2.8	1.8	1.7	1.5
70°	206.6	29.9	10.1	5.5	5.0	3.5	2.2	1.7	1.1	0.9	0.7
72.5°	74.9	17.3	8.5	4.2	3.3	2.2	1.3	0.7	0.6	0.6	0.4
75°	17.7	12.2	6.5	3.1	2.2	1.3	0.7	0.6	0.4	0.4	0.2
77.5°	8.1	9.4	4.2	1.8	1.5	0.9	0.6	0.4	0.2	0.2	0.0
80°	4.6	6.6	2.0	1.3	1.1	0.7	0.4	0.2	0.2	0.0	0.0
82.5°	2.4	3.7	1.5	1.1	0.9	0.6	0.4	0.0	0.0	0.0	0.0
85°	1.7	1.8	1.1	0.9	0.7	0.6	0.4	0.0	0.0	0.0	0.0
87.5°	1.3	1.3	1.1	0.9	0.7	0.6	0.2	0.0	0.0	0.0	0.0
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)