

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: P674481

Luminaire Tested: **CCP-SA-1B-840-U-AFL-HSS**

Issue Date: 04/16/2023



Test Information

Test Method: LM-79-08
Report Number: P674481
Test Lab: INNOVATION CENTER(G2)
Issue Date: 04/16/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCP-SA-1B-840-U-AFL-HSS
Description: INVUE CLEAR CURVE POLE MOUNT Light Square Luminaire @450mA w/ AFL distribution lens and House Side Shield
Light Source: (16) 4000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

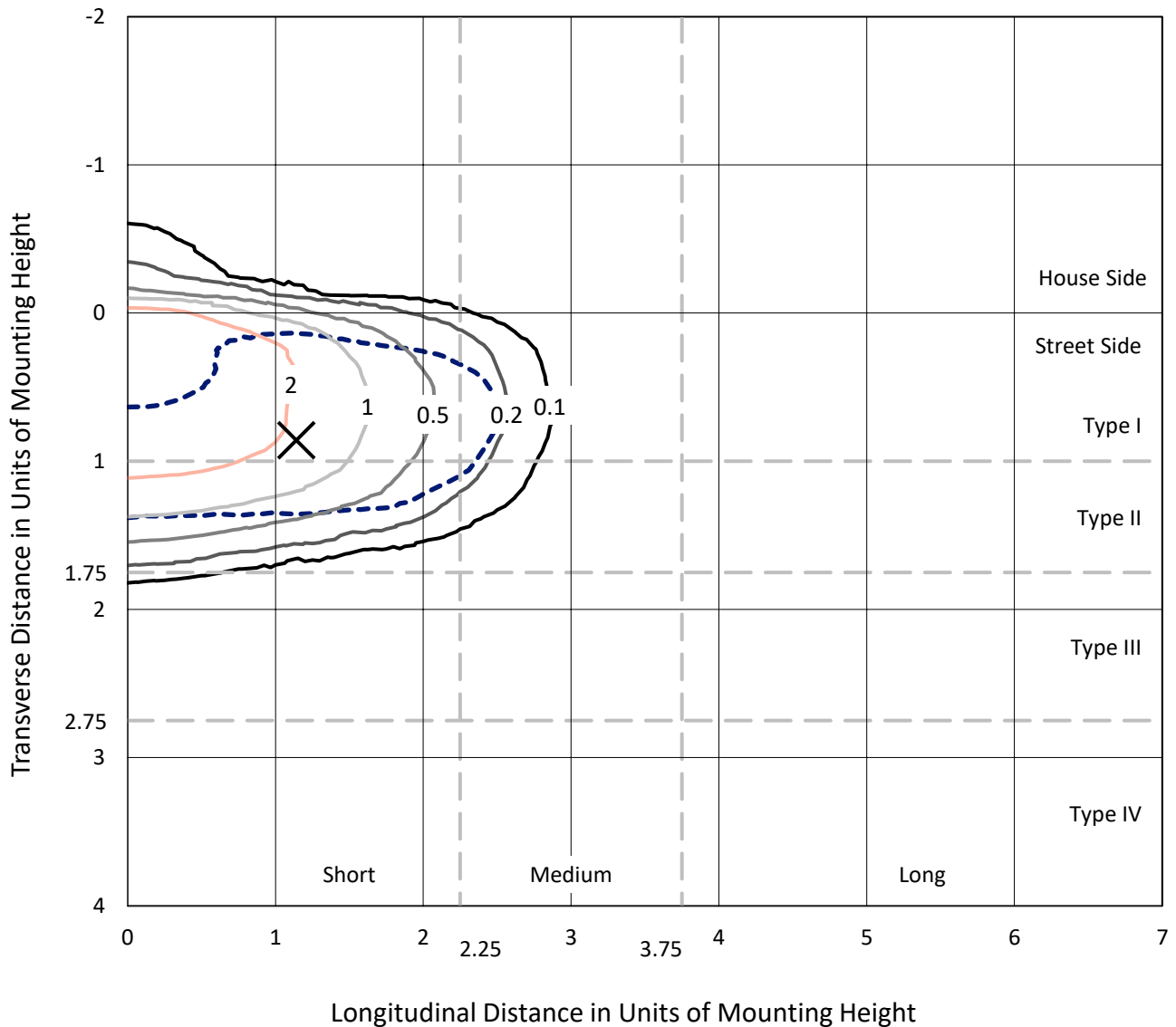
Lumens per Lamp: N/A
Luminaire Lumens: 2441.8 lumens
Efficiency: N/A
Efficacy: 101.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B0 - U0 - G0

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

REPORT NUMBER: P674481
 CATALOG NUMBER: CCP-SA-1B-840-U-AFL-HSS

Iso-Footcandle Lines of Horizontal Illumination

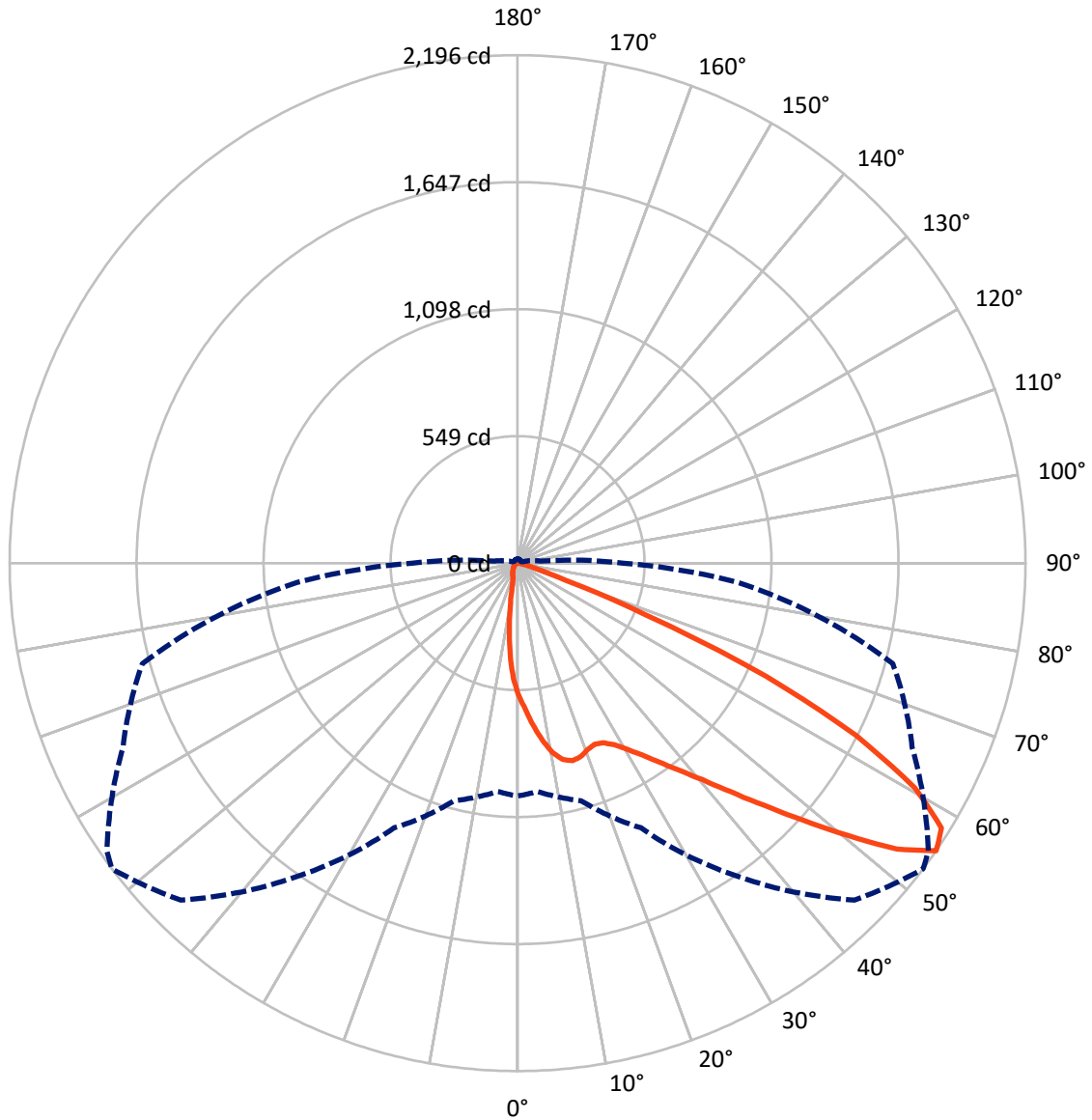
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 3.7 fc
 Type II - Short - N/A

REPORT NUMBER: P674481
CATALOG NUMBER: CCP-SA-1B-840-U-AFL-HSS

Luminous Intensity Polar Plot



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

REPORT NUMBER: P674481

CATALOG NUMBER: CCP-SA-1B-840-U-AFL-HSS

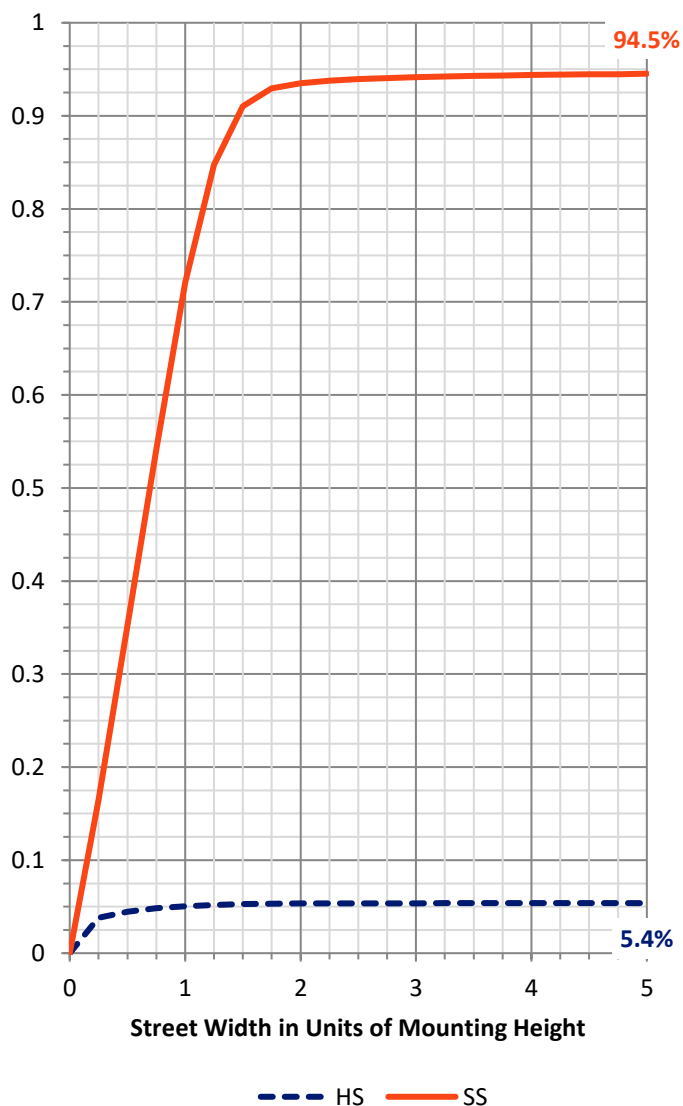
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	132.0	0.0	132.0
	% Fixture	5.4	0.0	5.4
Street Side	Lumens	2309.8	0.0	2309.8
	% Fixture	94.6	0.0	94.6
Total	Lumens	2441.8	0.0	2441.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	51.1	2.1
10°-20°	133.5	5.5
20°-30°	223.4	9.2
30°-40°	365.5	15.0
40°-50°	587.6	24.1
50°-60°	663.4	27.2
60°-70°	353.9	14.5
70°-80°	58.1	2.4
80°-90°	5.2	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°	2441.8	100.0
0°-180°	2441.8	100.0



REPORT NUMBER: P674481

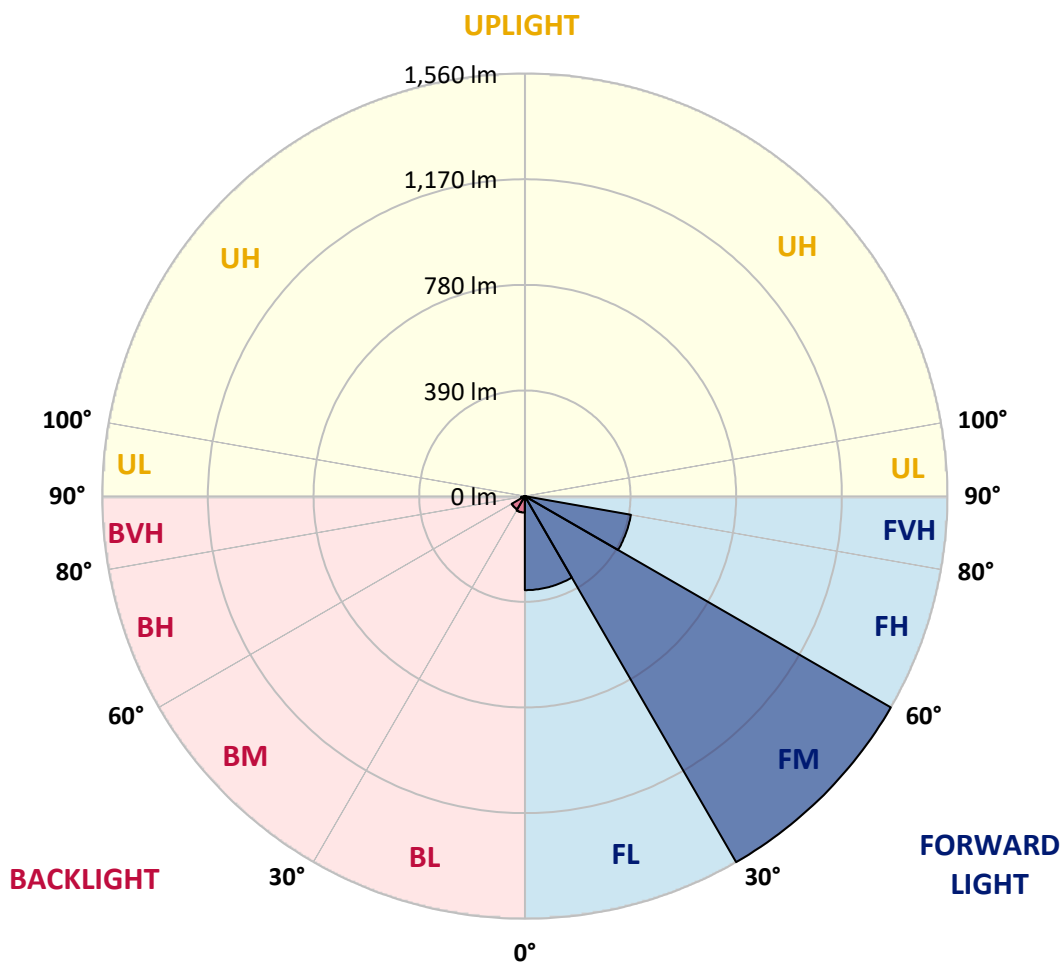
CATALOG NUMBER: CCP-SA-1B-840-U-AFL-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	347.1	14.2			
FM (30°-60°)	1560.3	63.9			
FH (60°-80°)	397.6	16.3			G0/660
FVH (80°-90°)	4.8	0.2			G0/10
BL (0°-30°)	60.9	2.5	B0/110		
BM (30°-60°)	56.2	2.3	B0/220		
BH (60°-80°)	14.4	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





REPORT NUMBER: P674481
 CATALOG NUMBER: CCP-SA-1B-840-U-AFL-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	571.4	571.4	571.4	571.4	571.4	571.4	571.4	571.4	571.4	571.4	571.4
2.5°	685.3	681.2	683.5	677.3	666.0	651.9	630.7	631.8	615.1	600.5	580.4
5°	798.4	794.1	792.9	777.0	761.2	735.7	704.3	699.2	668.6	631.6	589.4
7.5°	858.1	854.5	857.3	851.5	835.9	812.8	773.0	769.1	721.8	665.8	603.7
10°	830.7	829.4	841.2	854.9	867.5	864.7	832.9	826.9	773.8	703.4	618.5
12.5°	757.1	761.2	776.2	801.4	840.4	876.9	871.8	872.9	826.9	744.3	634.8
15°	713.9	718.8	727.4	740.4	788.4	853.4	886.6	897.3	877.8	789.9	654.0
17.5°	710.3	714.3	715.6	720.6	748.6	815.5	880.6	900.9	923.2	832.9	675.6
20°	738.3	740.0	738.9	735.3	745.4	795.0	861.8	890.8	960.6	878.7	694.7
22.5°	791.2	788.6	785.4	771.9	771.3	800.8	851.5	881.9	982.8	916.5	707.3
25°	856.6	851.3	846.8	827.7	818.7	830.9	860.7	885.1	1003.0	953.3	716.3
27.5°	928.1	929.8	918.7	893.0	878.9	876.3	889.1	907.3	1022.4	986.3	721.2
30°	1004.4	1005.3	990.8	964.2	951.4	934.9	934.1	945.0	1043.4	1024.1	725.9
32.5°	1091.5	1093.9	1070.1	1042.5	1020.1	998.7	988.2	997.4	1081.0	1073.6	735.5
35°	1217.3	1207.1	1175.0	1133.2	1101.4	1073.3	1057.3	1063.3	1131.1	1132.8	754.8
37.5°	1347.0	1345.9	1310.4	1250.3	1198.1	1163.2	1135.8	1145.7	1201.5	1212.2	785.6
40°	1467.8	1470.6	1439.8	1387.4	1320.2	1260.3	1231.0	1237.6	1295.0	1308.5	823.0
42.5°	1546.8	1545.3	1547.6	1532.7	1465.3	1394.7	1350.6	1354.2	1403.7	1410.7	869.9
45°	1583.2	1577.4	1597.5	1645.0	1618.2	1544.0	1493.7	1489.2	1516.4	1514.5	912.5
47.5°	1551.7	1541.0	1587.2	1701.7	1753.5	1731.0	1659.1	1651.0	1627.9	1612.5	956.7
50°	1395.3	1390.6	1489.5	1674.7	1838.4	1903.9	1851.0	1820.8	1727.4	1684.8	980.1
52.5°	1246.6	1233.6	1300.3	1537.2	1800.5	2042.9	2053.8	2000.1	1809.9	1705.5	972.1
55°	1007.0	991.0	1063.7	1262.9	1650.5	2060.7	2196.3	2168.3	1882.2	1679.9	956.1
57.5°	611.7	595.8	702.8	904.5	1320.0	1913.1	2161.2	2189.7	1937.9	1651.6	945.6
60°	257.2	247.1	289.0	431.7	842.9	1572.2	1975.1	2046.1	1948.4	1612.9	949.9
62.5°	133.7	129.2	131.6	172.9	340.8	1035.3	1643.9	1767.6	1842.7	1595.8	954.2
65°	100.3	96.9	89.4	95.0	132.4	447.6	1181.4	1347.0	1613.5	1552.4	925.3
67.5°	82.4	79.2	73.8	72.1	78.1	155.3	603.1	818.3	1264.4	1367.3	821.7
70°	65.7	64.6	62.9	59.7	58.6	75.3	216.3	333.5	836.1	964.2	595.6
72.5°	54.8	55.0	53.1	50.3	46.4	48.6	86.2	114.0	404.6	462.3	249.5
75°	45.8	45.8	46.4	42.6	38.7	33.4	47.9	55.6	129.9	106.8	53.3
77.5°	35.9	36.4	39.2	35.9	31.0	21.0	26.1	29.7	38.5	30.8	19.5
80°	28.7	28.2	27.2	32.3	27.8	14.8	12.4	13.7	18.0	14.8	9.6
82.5°	20.1	19.9	19.0	21.8	21.6	10.9	8.1	8.3	10.9	9.4	6.0
85°	4.9	5.8	12.2	10.3	9.0	6.4	4.9	5.3	7.1	6.2	3.2
87.5°	2.1	2.1	5.6	6.6	4.3	2.8	2.1	2.4	3.6	3.6	1.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P674481
 CATALOG NUMBER: CCP-SA-1B-840-U-AFL-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	571.4	571.4	571.4	571.4	571.4	571.4	571.4	571.4	571.4	571.4	571.4
2.5°	573.4	559.5	541.9	523.3	504.3	481.4	466.8	454.8	445.4	438.1	435.6
5°	575.5	548.8	509.0	459.5	409.3	362.2	325.8	298.9	276.6	264.4	259.1
7.5°	575.3	539.8	467.9	385.1	303.4	235.5	187.4	157.7	137.8	129.6	124.7
10°	575.1	528.0	421.0	302.5	202.8	136.5	100.6	83.9	76.6	73.8	73.4
12.5°	581.3	514.5	368.6	222.7	127.3	84.9	70.0	66.1	64.4	63.5	63.3
15°	584.7	502.1	313.4	157.2	85.8	67.2	62.5	60.8	60.1	59.7	59.5
17.5°	588.3	482.9	261.0	113.8	68.7	61.0	58.2	57.1	56.7	56.7	56.7
20°	589.0	462.1	209.0	83.9	61.0	56.9	54.1	53.1	52.4	52.0	52.0
22.5°	584.3	437.5	164.3	68.0	56.5	53.1	50.1	48.4	47.3	47.1	47.1
25°	572.5	402.6	126.0	59.7	52.8	49.2	45.6	43.6	42.8	42.8	42.8
27.5°	555.6	361.6	97.3	53.1	48.1	44.5	41.3	39.6	39.4	39.2	39.4
30°	536.3	322.0	74.5	47.1	42.6	39.6	37.0	36.2	36.6	36.6	36.8
32.5°	517.1	282.4	58.2	42.4	37.7	35.1	33.8	33.8	34.4	34.4	34.4
35°	500.6	243.7	48.8	38.5	34.2	32.1	31.4	32.1	32.5	32.7	32.7
37.5°	491.4	210.3	43.0	35.1	31.4	29.7	29.5	30.2	31.0	31.7	31.9
40°	488.0	184.6	39.6	32.5	28.9	27.8	27.6	28.5	30.0	31.0	31.2
42.5°	488.2	162.0	36.6	30.0	27.2	25.7	25.7	27.0	28.5	29.5	29.5
45°	489.7	142.5	33.6	27.4	25.7	23.1	23.3	25.0	26.1	27.2	27.2
47.5°	491.0	126.9	30.4	24.6	22.2	21.0	21.4	22.7	24.2	25.9	25.9
50°	483.5	115.7	27.2	21.6	19.5	19.0	19.9	21.0	23.1	24.8	25.0
52.5°	465.5	105.7	24.4	19.3	17.5	17.8	18.8	19.5	21.2	21.4	21.6
55°	457.6	100.6	22.2	17.5	16.0	16.7	17.3	17.5	17.1	16.0	16.0
57.5°	455.9	97.1	20.1	15.8	14.8	15.6	15.4	14.1	12.8	11.6	11.3
60°	457.6	92.4	18.4	13.7	13.5	13.7	13.1	10.7	9.0	8.1	7.7
62.5°	447.8	85.6	16.9	11.8	11.8	11.6	9.8	7.3	5.8	5.1	4.9
65°	415.3	72.1	15.4	9.8	9.6	9.2	6.6	4.9	3.9	3.2	3.0
67.5°	351.3	55.8	13.9	8.1	7.7	6.4	4.3	3.2	2.1	1.9	1.7
70°	239.6	34.7	11.8	6.4	5.8	4.1	2.6	1.9	1.3	1.1	0.9
72.5°	86.9	20.1	9.8	4.9	3.9	2.6	1.5	0.9	0.6	0.6	0.4
75°	20.5	14.1	7.5	3.6	2.6	1.5	0.9	0.6	0.4	0.4	0.2
77.5°	9.4	10.9	4.9	2.1	1.7	1.1	0.6	0.4	0.2	0.2	0.0
80°	5.3	7.7	2.4	1.5	1.3	0.9	0.4	0.2	0.2	0.0	0.0
82.5°	2.8	4.3	1.7	1.3	1.1	0.6	0.4	0.0	0.0	0.0	0.0
85°	1.9	2.1	1.3	1.1	0.9	0.6	0.4	0.0	0.0	0.0	0.0
87.5°	1.5	1.5	1.3	1.1	0.9	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)