

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: P676917

Luminaire Tested: **CCW-SA-1B-840-U-SL2-HSS**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P676917
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-SL2-HSS
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @450mA w/
SL2 distribution lens and House Side Shield
Light Source: (16) 4000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

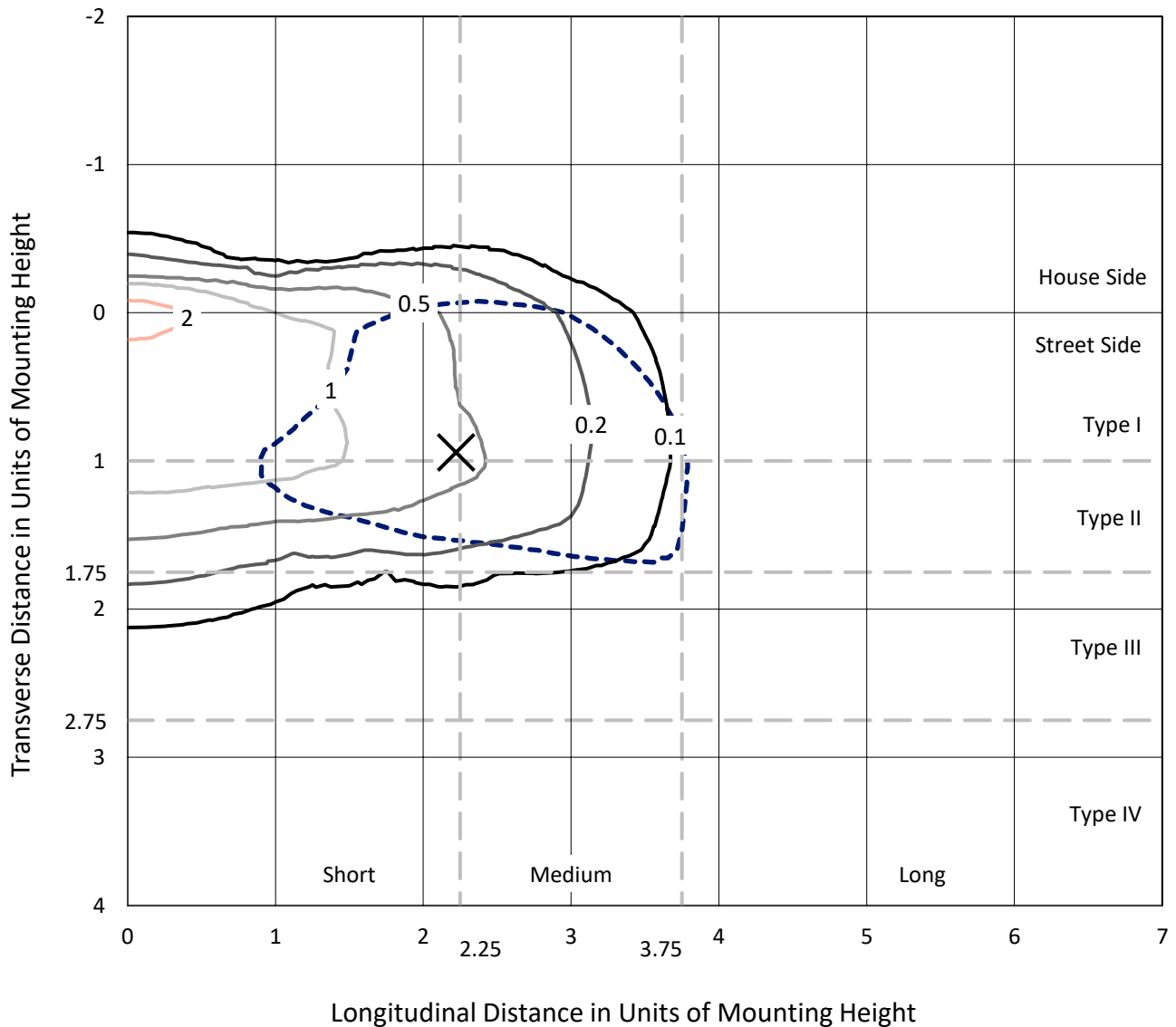
Lumens per Lamp: N/A
Luminaire Lumens: 2367.9 lumens
Efficiency: N/A
Efficacy: 98.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B0 - U0 - G1

Input Watts (W): 24
Input Voltage (V): 120
Input Current (A_{in}): 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: P676917
 CATALOG NUMBER: CCW-SA-1B-840-U-SL2-HSS

Iso-Footcandle Lines of Horizontal Illumination

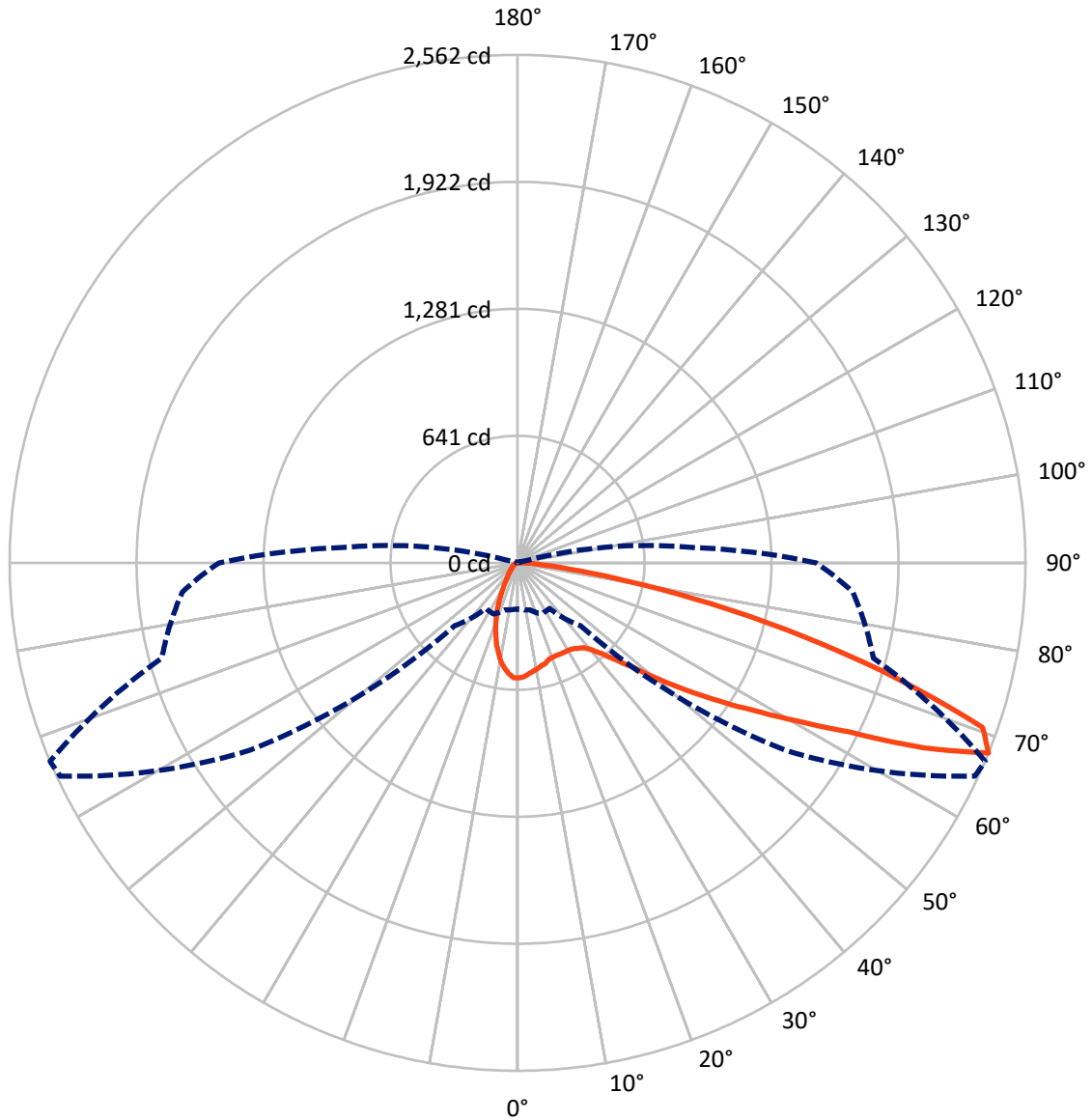
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 2.6 fc
 Type II - Short - N/A

REPORT NUMBER: P676917
CATALOG NUMBER: CCW-SA-1B-840-U-SL2-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

REPORT NUMBER: P676917
 CATALOG NUMBER: CCW-SA-1B-840-U-SL2-HSS

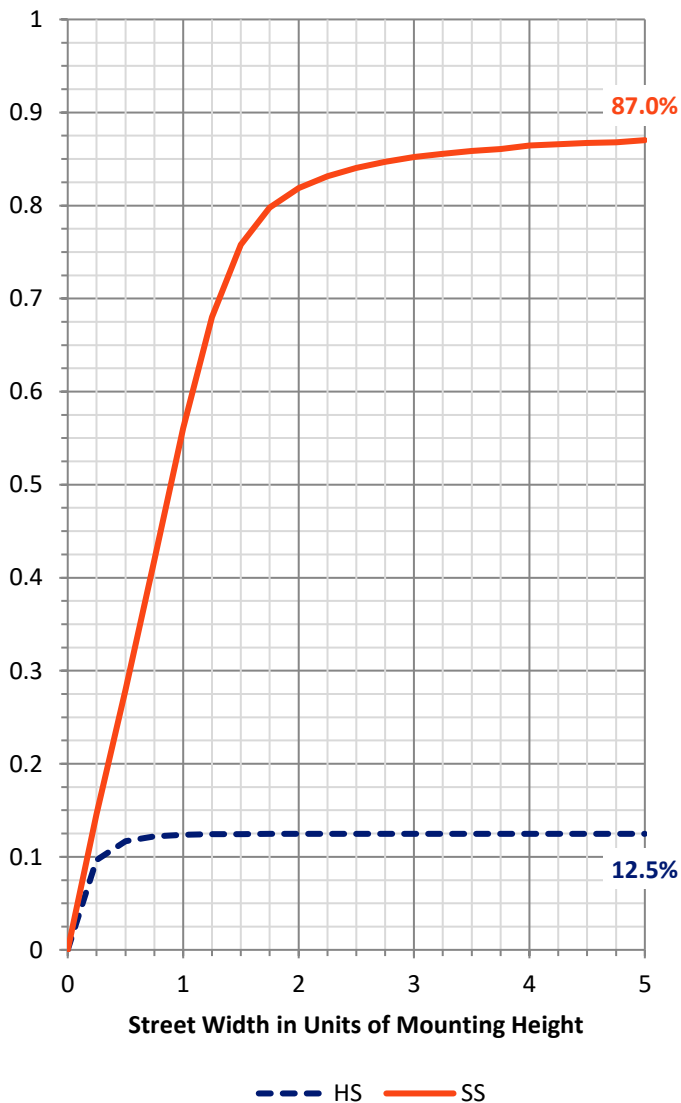
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	298.0	0.0	298.0
	% Fixture	12.6	0.0	12.6
Street Side	Lumens	2069.9	0.0	2069.9
	% Fixture	87.4	0.0	87.4
Total	Lumens	2367.9	0.0	2367.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	48.9	2.1
10°-20°	108.7	4.6
20°-30°	154.6	6.5
30°-40°	225.1	9.5
40°-50°	348.4	14.7
50°-60°	534.6	22.6
60°-70°	579.5	24.5
70°-80°	327.0	13.8
80°-90°	41.1	1.7
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°	2367.9	100.0
0°-180°	2367.9	100.0

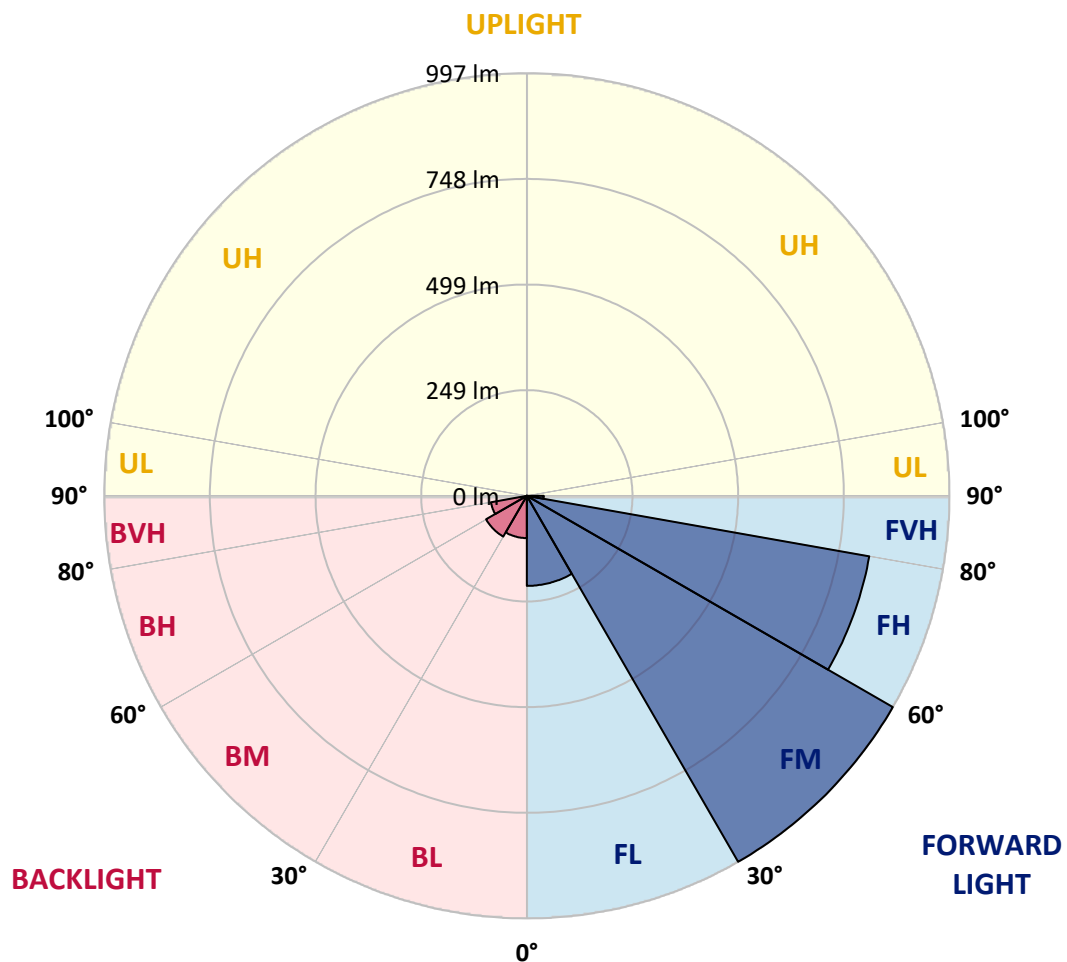


REPORT NUMBER: P676917
 CATALOG NUMBER: CCW-SA-1B-840-U-SL2-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	212.5	9.0			
FM (30°-60°)	997.1	42.1			
FH (60°-80°)	820.4	34.6			G1/1800
FVH (80°-90°)	39.9	1.7			G1/100
BL (0°-30°)	99.8	4.2	B0/110		
BM (30°-60°)	111.0	4.7	B0/220		
BH (60°-80°)	86.1	3.6	B0/110		G0/110
BVH (80°-90°)	1.2	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-G1
 Type II Short





REPORT NUMBER: P676917
 CATALOG NUMBER: CCW-SA-1B-840-U-SL2-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	580.8	580.8	580.8	580.8	580.8	580.8	580.8	580.8	580.8	580.8	580.8
2.5°	555.7	558.5	562.5	568.2	572.2	570.0	571.7	581.4	576.2	580.8	578.5
5°	524.9	527.7	533.4	532.9	537.4	546.0	557.4	570.0	564.3	577.9	583.1
7.5°	492.9	491.8	491.8	503.8	513.5	525.5	531.7	552.3	552.8	564.8	577.4
10°	463.8	467.3	473.0	477.5	486.7	503.8	522.0	538.0	544.3	568.2	571.7
12.5°	446.2	447.9	454.7	458.7	470.7	487.2	506.6	527.2	532.3	556.8	573.4
15°	438.7	442.7	445.0	452.4	458.7	474.1	488.4	511.8	526.6	546.0	566.5
17.5°	444.4	442.7	443.9	446.2	453.6	467.3	482.7	506.1	511.2	543.7	574.5
20°	451.9	452.4	449.0	447.9	446.2	459.3	471.8	502.1	507.8	543.7	579.7
22.5°	471.8	465.5	471.8	462.7	453.6	459.3	471.3	502.6	506.6	543.1	584.8
25°	496.4	497.5	499.2	479.8	466.7	462.7	475.2	504.3	507.8	547.7	587.1
27.5°	531.2	536.3	527.7	518.0	491.8	471.8	474.7	503.2	509.5	545.4	592.8
30°	577.9	573.9	575.1	552.8	527.2	495.8	487.8	506.1	510.6	548.3	603.6
32.5°	618.5	613.9	621.9	613.9	573.4	530.0	503.2	511.8	516.9	555.1	612.7
35°	643.6	649.3	661.8	670.4	636.1	574.5	528.9	527.2	529.4	558.5	619.6
37.5°	682.3	692.6	702.9	724.6	694.9	629.3	569.4	547.1	543.1	575.1	623.0
40°	724.6	721.7	752.0	777.6	776.5	706.3	625.9	582.5	576.8	601.3	645.8
42.5°	759.9	757.1	790.7	833.0	837.5	780.5	690.3	632.7	627.6	641.8	673.8
45°	806.2	808.4	848.4	898.6	915.1	878.6	777.6	704.6	701.7	697.2	726.9
47.5°	847.2	859.8	894.0	953.3	1013.3	980.2	880.3	809.6	789.6	779.3	809.0
50°	875.8	887.2	928.8	992.1	1101.7	1122.8	995.6	921.4	922.0	896.9	912.8
52.5°	875.8	875.2	908.8	992.1	1163.3	1271.7	1149.6	1062.3	1066.9	1040.6	1041.8
55°	791.3	789.6	830.7	919.1	1156.5	1414.9	1383.0	1240.9	1229.5	1178.7	1183.8
57.5°	637.3	641.3	672.7	778.8	1067.5	1481.7	1660.8	1441.7	1402.9	1297.9	1297.9
60°	465.0	461.6	484.9	559.1	855.2	1456.6	1889.0	1678.5	1617.4	1396.6	1381.8
62.5°	353.7	353.2	359.4	384.5	542.6	1270.0	1987.1	1979.7	1880.5	1493.6	1472.5
65°	285.8	287.0	295.5	313.2	331.5	866.1	1935.2	2339.2	2248.4	1638.0	1568.9
67.5°	233.3	236.2	246.5	284.7	280.7	448.4	1648.2	2545.1	2562.2	1858.2	1698.5
70°	179.7	184.3	196.3	250.5	270.4	298.4	1142.8	2442.4	2488.1	1995.1	1620.3
72.5°	122.1	121.5	147.2	203.1	273.3	273.3	636.1	1967.2	2010.5	1839.4	1407.5
75°	66.2	70.2	97.6	153.5	250.5	264.2	362.3	1439.4	1500.5	1430.3	1088.6
77.5°	35.9	36.5	54.2	100.4	208.2	252.2	241.9	979.0	1003.0	862.6	596.2
80°	18.8	19.4	28.5	65.6	143.8	233.9	201.4	583.6	560.8	330.9	196.8
82.5°	8.6	9.1	14.3	41.1	91.9	184.3	174.0	281.8	260.2	92.4	59.9
85°	3.4	3.4	6.3	24.5	53.6	90.7	148.9	141.5	118.1	28.0	29.7
87.5°	1.1	1.1	1.7	9.7	21.7	54.2	79.3	74.7	51.3	10.3	16.0
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: P676917
 CATALOG NUMBER: CCW-SA-1B-840-U-SL2-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	580.8	580.8	580.8	580.8	580.8	580.8	580.8	580.8	580.8	580.8	580.8
2.5°	576.2	582.5	580.8	579.7	568.8	567.7	566.5	556.3	559.7	551.1	556.8
5°	579.7	583.1	573.9	556.8	541.4	524.3	511.2	502.1	485.5	479.2	478.1
7.5°	576.2	576.2	557.4	530.0	499.8	471.8	436.5	411.3	392.5	378.3	383.4
10°	571.7	564.8	545.4	496.9	442.2	399.9	349.2	312.1	284.1	275.0	269.3
12.5°	571.7	559.7	516.3	450.1	379.4	315.5	255.0	206.5	179.7	163.7	161.5
15°	566.5	548.8	495.2	406.2	318.4	231.6	162.6	121.0	98.1	91.9	89.6
17.5°	567.7	546.6	463.8	354.3	247.0	154.0	99.3	76.5	70.7	67.9	68.5
20°	570.0	546.6	435.9	303.5	178.0	95.8	68.5	64.5	61.6	60.5	61.0
22.5°	577.4	535.7	407.4	251.6	120.4	69.0	60.5	56.5	54.2	52.5	51.9
25°	578.5	534.0	380.0	200.3	82.7	58.2	53.1	48.5	45.6	43.4	42.8
27.5°	576.8	526.6	341.7	148.9	62.2	51.9	45.1	40.5	36.5	34.8	34.2
30°	583.1	512.9	309.2	107.3	52.5	45.1	38.2	33.1	29.7	27.4	27.4
32.5°	583.6	500.9	273.3	76.5	47.9	39.9	32.5	26.8	23.4	22.3	22.3
35°	584.2	490.1	233.3	58.2	42.8	34.2	26.8	22.3	20.0	18.3	18.3
37.5°	585.9	482.1	196.8	49.1	38.2	29.1	22.3	18.3	16.0	15.4	15.4
40°	589.4	471.3	158.6	43.4	33.1	24.5	18.8	15.4	13.1	12.6	12.0
42.5°	598.5	468.4	126.7	38.8	29.7	20.5	15.4	12.6	10.8	9.7	9.1
45°	636.1	475.8	98.1	35.9	25.1	17.1	13.1	10.3	8.0	7.4	6.8
47.5°	697.8	500.4	77.6	31.9	21.1	14.3	10.8	8.0	6.3	5.7	5.1
50°	791.3	556.3	63.3	28.5	17.7	12.0	8.6	6.3	4.6	4.0	4.0
52.5°	914.0	631.6	54.8	25.1	14.3	10.3	6.8	4.6	3.4	2.9	2.9
55°	1039.5	720.6	51.3	21.7	12.0	8.6	5.1	3.4	2.3	1.7	1.7
57.5°	1154.7	778.2	49.6	17.7	10.3	6.3	4.0	2.3	1.1	0.6	0.6
60°	1226.6	820.4	44.5	14.3	8.0	5.1	2.9	1.1	0.6	0.0	0.0
62.5°	1321.3	863.2	36.5	10.8	5.7	3.4	1.7	0.6	0.0	0.0	0.0
65°	1446.3	911.1	28.5	8.6	4.6	2.3	1.1	0.6	0.0	0.0	0.0
67.5°	1506.2	886.0	19.4	6.3	2.9	1.1	0.6	0.0	0.0	0.0	0.0
70°	1386.4	746.2	13.7	4.6	1.7	0.6	0.6	0.0	0.0	0.0	0.0
72.5°	1165.6	584.8	10.3	2.9	1.1	0.6	0.0	0.0	0.0	0.0	0.0
75°	859.2	365.7	8.0	2.3	1.1	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	455.9	136.4	5.7	1.7	0.6	0.0	0.0	0.0	0.0	0.0	0.0
80°	134.6	39.9	4.0	1.1	0.6	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	44.5	12.0	2.3	1.1	0.6	0.0	0.0	0.0	0.0	0.0	0.0
85°	22.8	4.6	1.1	1.1	0.6	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	13.1	1.7	1.1	1.1	0.6	0.0	0.0	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)