

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: P677128

Luminaire Tested: **CCW-SA-1B-735-U-SL4-HSS**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P677128
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-1B-735-U-SL4-HSS
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @450mA w/
SL4 distribution lens and House Side Shield
Light Source: (16) 3500K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

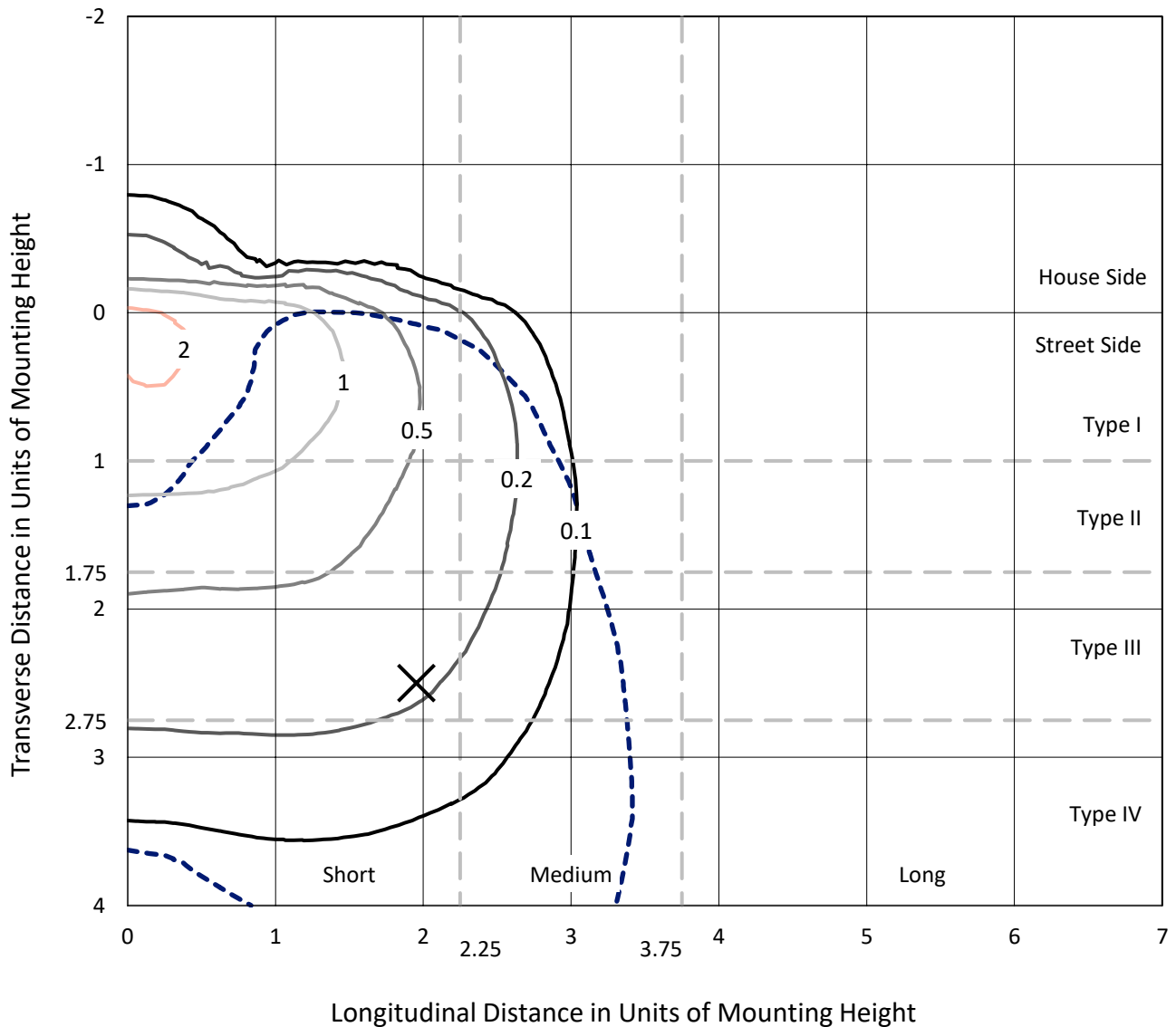
Lumens per Lamp: N/A
Luminaire Lumens: 2813.7 lumens
Efficiency: N/A
Efficacy: 117.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B0 - U0 - G1

Input Watts (W): 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: P677128
 CATALOG NUMBER: CCW-SA-1B-735-U-SL4-HSS

Iso-Footcandle Lines of Horizontal Illumination

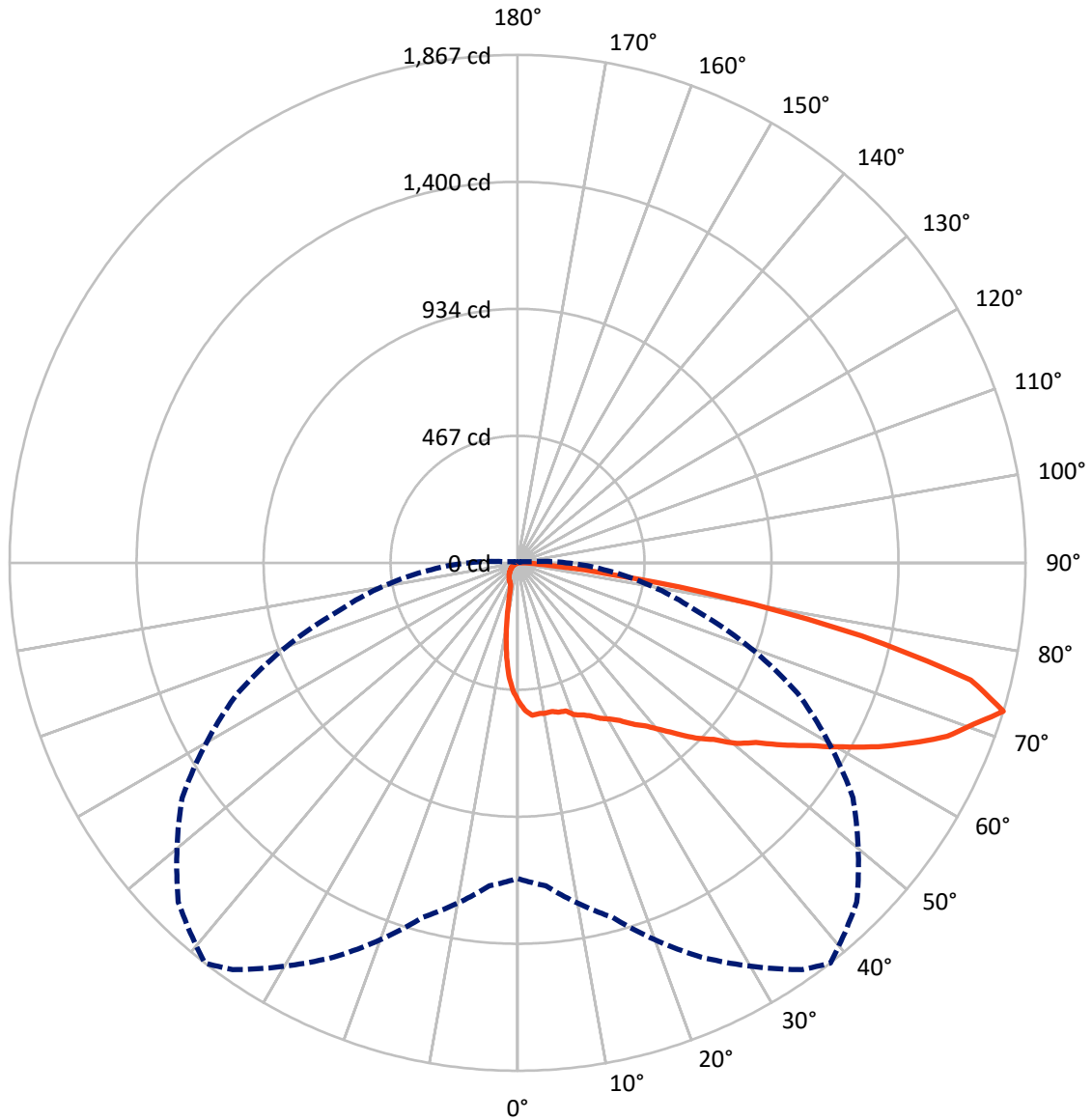
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 2.4 fc
 Type IV - Short - N/A

REPORT NUMBER: P677128
CATALOG NUMBER: CCW-SA-1B-735-U-SL4-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 38-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

REPORT NUMBER: P677128
 CATALOG NUMBER: CCW-SA-1B-735-U-SL4-HSS

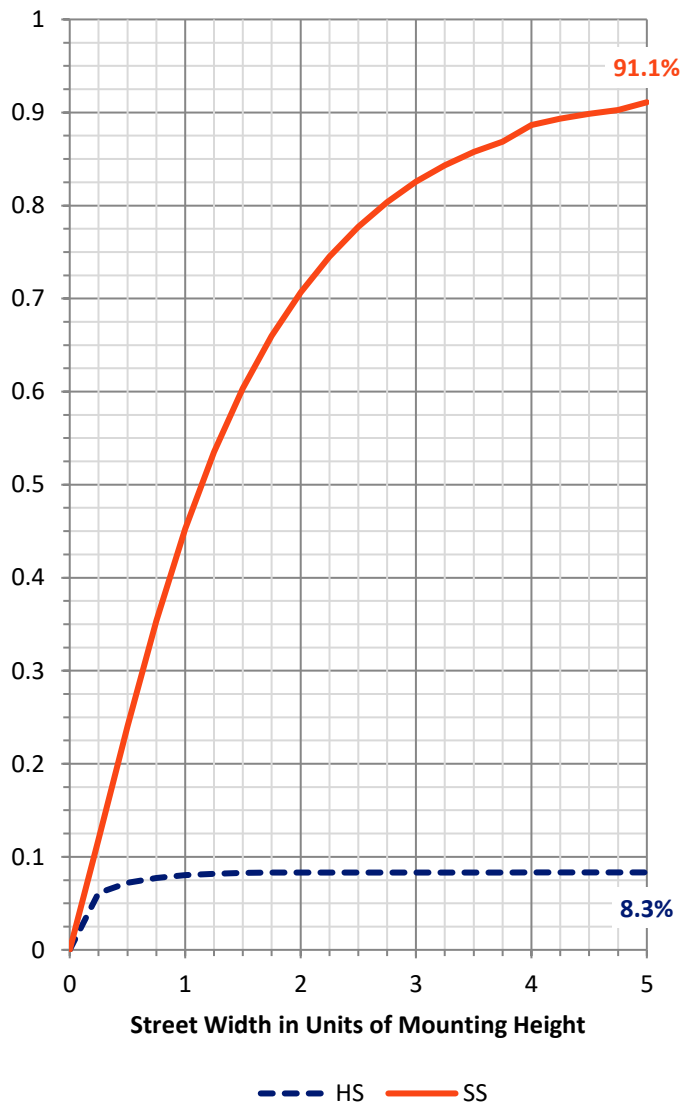
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	235.7	0.0	235.7
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	2578.0	0.0	2578.0
	% Fixture	91.6	0.0	91.6
Total	Lumens	2813.7	0.0	2813.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	44.5	1.6
10°-20°	109.0	3.9
20°-30°	174.8	6.2
30°-40°	263.9	9.4
40°-50°	401.7	14.3
50°-60°	565.5	20.1
60°-70°	690.8	24.6
70°-80°	501.6	17.8
80°-90°	61.8	2.2
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°	2813.7	100.0
0°-180°	2813.7	100.0

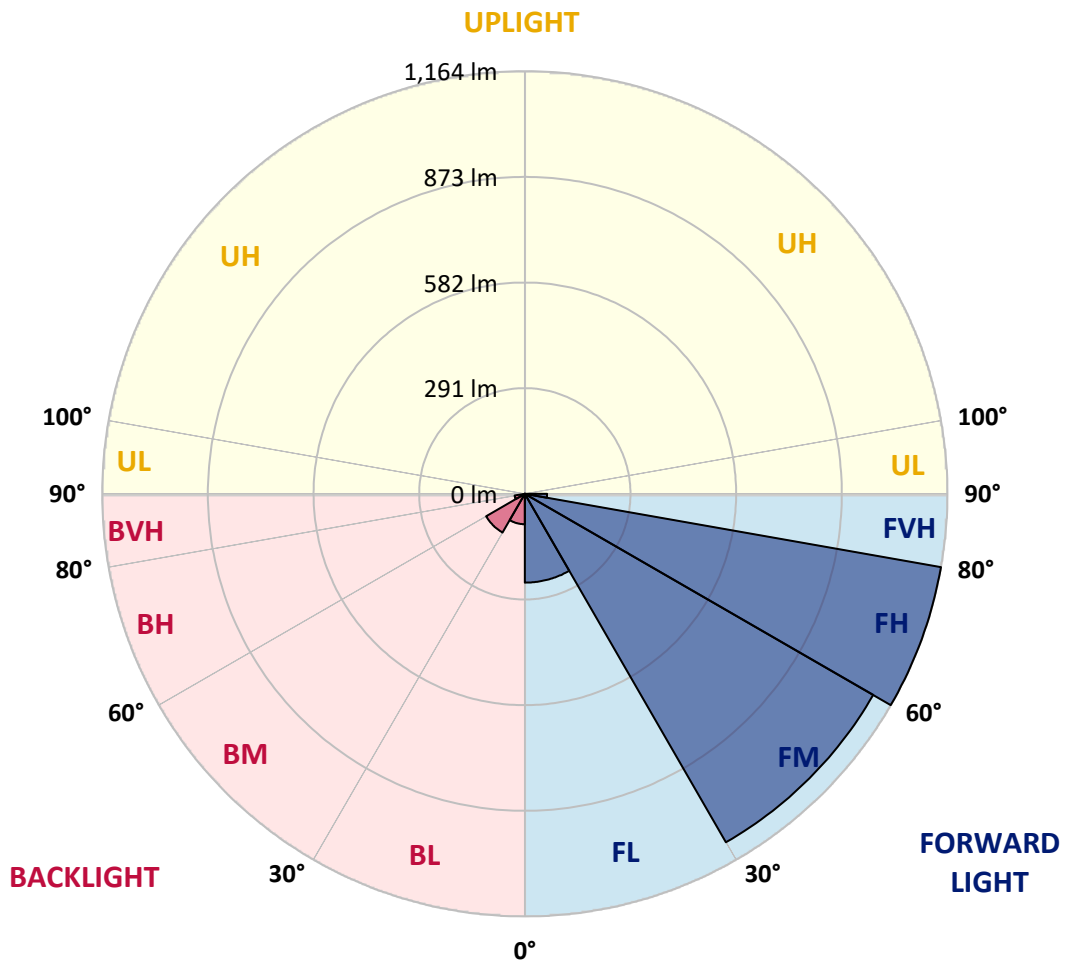


REPORT NUMBER: P677128
 CATALOG NUMBER: CCW-SA-1B-735-U-SL4-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	244.7	8.7			
FM (30°-60°)	1108.0	39.4			
FH (60°-80°)	1163.8	41.4			G1/1800
FVH (80°-90°)	61.5	2.2			G1/100
BL (0°-30°)	83.7	3.0	B0/110		
BM (30°-60°)	123.1	4.4	B0/220		
BH (60°-80°)	28.6	1.0	B0/110		G0/110
BVH (80°-90°)	0.3	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 IV Short





REPORT NUMBER: P677128

CATALOG NUMBER: CCW-SA-1B-735-U-SL4-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	508.8	508.8	508.8	508.8	508.8	508.8	508.8	508.8	508.8	508.8	508.8
2.5°	559.0	559.0	564.3	559.0	557.0	544.5	545.1	538.5	531.9	522.7	514.1
5°	565.6	570.2	573.5	568.9	561.6	562.9	567.6	555.0	537.2	526.0	506.8
7.5°	562.9	572.8	570.2	567.6	562.9	559.6	553.0	547.8	539.2	528.6	506.2
10°	561.0	564.3	564.9	562.9	553.0	562.3	555.0	546.4	535.9	523.3	495.6
12.5°	553.7	553.7	559.6	555.0	556.3	561.0	557.7	555.7	544.5	533.9	509.5
15°	545.8	548.4	557.7	564.9	571.5	569.5	567.6	561.6	551.7	539.8	514.1
17.5°	547.8	549.1	563.6	576.8	573.5	572.2	582.7	570.2	560.3	547.1	518.1
20°	555.0	559.0	575.5	592.6	595.9	595.9	592.0	584.7	570.9	553.0	525.3
22.5°	562.3	563.6	590.7	612.4	615.7	607.2	610.5	589.3	576.1	566.2	532.6
25°	590.0	587.4	616.4	633.6	631.6	623.0	619.7	601.2	595.9	578.1	548.4
27.5°	627.6	616.4	644.8	655.3	644.8	647.4	638.2	618.4	607.2	596.6	555.7
30°	650.7	657.3	672.5	683.1	665.2	665.9	661.3	639.5	622.3	625.0	580.1
32.5°	686.4	691.0	702.2	706.8	693.0	691.6	687.0	669.9	657.3	654.7	613.1
35°	724.6	733.2	733.9	735.2	722.6	727.9	721.3	696.9	703.5	708.1	652.7
37.5°	762.2	754.3	767.5	773.5	759.6	759.6	761.6	745.1	757.0	770.8	708.8
40°	776.8	780.1	803.2	798.5	815.0	805.1	812.4	808.4	818.3	850.0	788.0
42.5°	791.9	795.9	826.9	835.5	855.3	858.6	869.2	869.8	898.9	951.0	863.9
45°	821.0	814.4	856.6	877.7	910.1	919.3	931.9	942.4	988.0	1049.3	950.3
47.5°	847.4	838.1	886.3	928.6	968.2	970.1	1004.4	1015.7	1069.8	1139.7	1036.1
50°	884.3	887.6	908.1	980.7	1020.9	1044.0	1067.8	1104.8	1164.8	1239.4	1098.2
52.5°	922.6	919.3	953.6	1024.9	1088.3	1096.8	1150.3	1191.9	1257.2	1313.3	1125.9
55°	969.5	973.4	986.6	1080.3	1160.9	1181.3	1241.4	1284.9	1356.2	1345.0	1135.1
57.5°	1016.3	1012.4	1042.1	1142.4	1251.9	1267.1	1347.0	1372.7	1420.9	1366.1	1112.0
60°	1062.5	1069.8	1082.3	1212.3	1351.6	1374.0	1437.4	1450.6	1461.1	1376.0	1094.2
62.5°	1115.3	1098.2	1137.1	1286.2	1441.3	1488.2	1538.4	1486.2	1477.0	1358.2	1053.3
65°	1141.7	1147.0	1197.8	1370.7	1560.8	1595.1	1601.7	1534.4	1486.9	1318.6	1015.0
67.5°	1182.6	1189.9	1254.6	1457.2	1683.5	1702.7	1678.9	1577.9	1478.3	1267.1	877.1
70°	1187.9	1205.7	1330.5	1547.6	1760.8	1777.3	1758.8	1607.0	1409.0	1064.5	649.4
72.5°	1160.2	1191.9	1348.9	1599.1	1825.4	1867.0	1763.4	1504.7	1135.8	679.1	332.6
75°	876.4	902.8	1234.8	1522.5	1710.6	1720.5	1548.3	1148.3	646.8	231.6	85.1
77.5°	454.0	499.6	824.3	1163.5	1303.4	1292.8	1077.7	676.5	222.4	60.7	34.3
80°	260.7	271.9	360.3	653.4	819.7	779.4	595.9	291.7	97.7	30.4	22.4
82.5°	128.7	144.5	194.0	292.4	409.8	337.2	223.7	174.9	54.8	16.5	19.8
85°	27.7	29.0	99.0	139.9	166.3	109.6	76.6	147.2	19.8	9.9	19.1
87.5°	19.8	19.1	27.7	62.7	46.2	28.4	45.5	77.2	4.6	4.6	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



REPORT NUMBER: P677128
 CATALOG NUMBER: CCW-SA-1B-735-U-SL4-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	508.8	508.8	508.8	508.8	508.8	508.8	508.8	508.8	508.8	508.8	508.8
2.5°	508.8	502.9	496.3	483.7	480.4	478.5	467.2	466.6	464.6	460.0	458.0
5°	495.0	485.1	472.5	459.3	448.8	429.6	406.5	394.7	380.1	380.8	376.2
7.5°	493.0	474.5	456.7	429.0	395.3	359.7	324.0	300.9	284.4	274.5	276.5
10°	483.7	469.9	440.8	389.4	335.3	281.1	235.6	201.3	181.5	166.3	170.9
12.5°	487.7	460.6	419.7	351.1	273.9	207.2	150.5	117.5	103.0	97.7	99.0
15°	485.1	460.6	407.2	309.5	215.1	140.6	97.7	87.1	84.5	84.5	83.2
17.5°	493.0	465.9	386.1	268.6	154.4	93.7	83.8	81.8	79.9	79.9	79.9
20°	504.2	468.6	371.6	223.1	108.9	82.5	78.5	77.2	76.6	76.6	75.9
22.5°	504.9	465.9	344.5	172.9	83.8	77.9	74.6	73.9	73.9	72.6	72.6
25°	508.8	468.6	315.5	130.0	77.9	73.3	70.6	70.0	70.6	70.0	69.3
27.5°	518.7	473.2	286.4	95.0	73.3	69.3	67.3	66.7	66.7	66.7	65.3
30°	531.3	473.2	254.1	78.5	69.3	65.3	63.4	62.7	62.0	62.0	62.0
32.5°	557.7	488.4	214.5	70.0	64.0	60.7	58.7	58.7	58.1	58.1	57.4
35°	590.7	498.9	174.2	64.7	59.4	56.1	54.1	54.1	53.5	53.5	52.8
37.5°	631.6	525.3	133.3	60.7	54.8	51.5	49.5	49.5	49.5	48.8	48.8
40°	689.7	552.4	99.0	55.4	50.2	46.9	45.5	44.9	44.2	44.2	42.9
42.5°	751.7	594.0	73.9	51.5	46.2	43.6	41.6	39.6	39.6	37.6	37.6
45°	819.0	630.3	60.1	46.9	42.2	38.9	37.0	35.6	33.7	32.3	32.3
47.5°	885.0	652.7	52.8	41.6	38.3	35.6	33.7	31.0	28.4	27.7	27.1
50°	938.5	659.3	46.9	37.6	35.0	32.3	29.7	26.4	23.8	22.4	21.8
52.5°	938.5	623.0	42.2	33.7	31.7	29.0	25.7	21.8	18.5	17.2	16.5
55°	938.5	565.6	37.6	31.0	28.4	26.4	21.8	17.8	14.5	12.5	11.9
57.5°	924.6	496.3	33.7	27.7	25.1	22.4	18.5	13.9	10.6	8.6	8.6
60°	886.3	423.7	29.0	24.4	21.8	18.5	14.5	9.9	6.6	4.6	4.6
62.5°	837.5	337.2	25.1	20.5	17.8	15.2	11.2	6.6	2.6	1.3	1.3
65°	752.3	248.8	21.8	17.2	13.9	11.2	7.3	2.6	0.0	0.0	0.0
67.5°	621.0	166.3	17.2	13.9	11.9	7.9	4.6	0.7	0.0	0.0	0.0
70°	436.9	94.4	13.2	9.9	8.6	5.3	1.3	0.0	0.0	0.0	0.0
72.5°	179.5	41.6	9.2	7.3	5.9	2.6	0.0	0.0	0.0	0.0	0.0
75°	48.8	18.5	5.9	4.0	3.3	0.7	0.0	0.0	0.0	0.0	0.0
77.5°	28.4	12.5	2.6	1.3	1.3	0.0	0.0	0.0	0.0	0.0	0.0
80°	22.4	5.9	1.3	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	22.4	3.3	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	19.1	1.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.6	0.0	0.0	0.0	0.0	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)