

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: P677107

Luminaire Tested: **CCW-SA-1C-727-U-SL4-HSS**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P677107
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-1C-727-U-SL4-HSS
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @615mA w/
SL4 distribution lens and House Side Shield
Light Source: (16) 2700K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

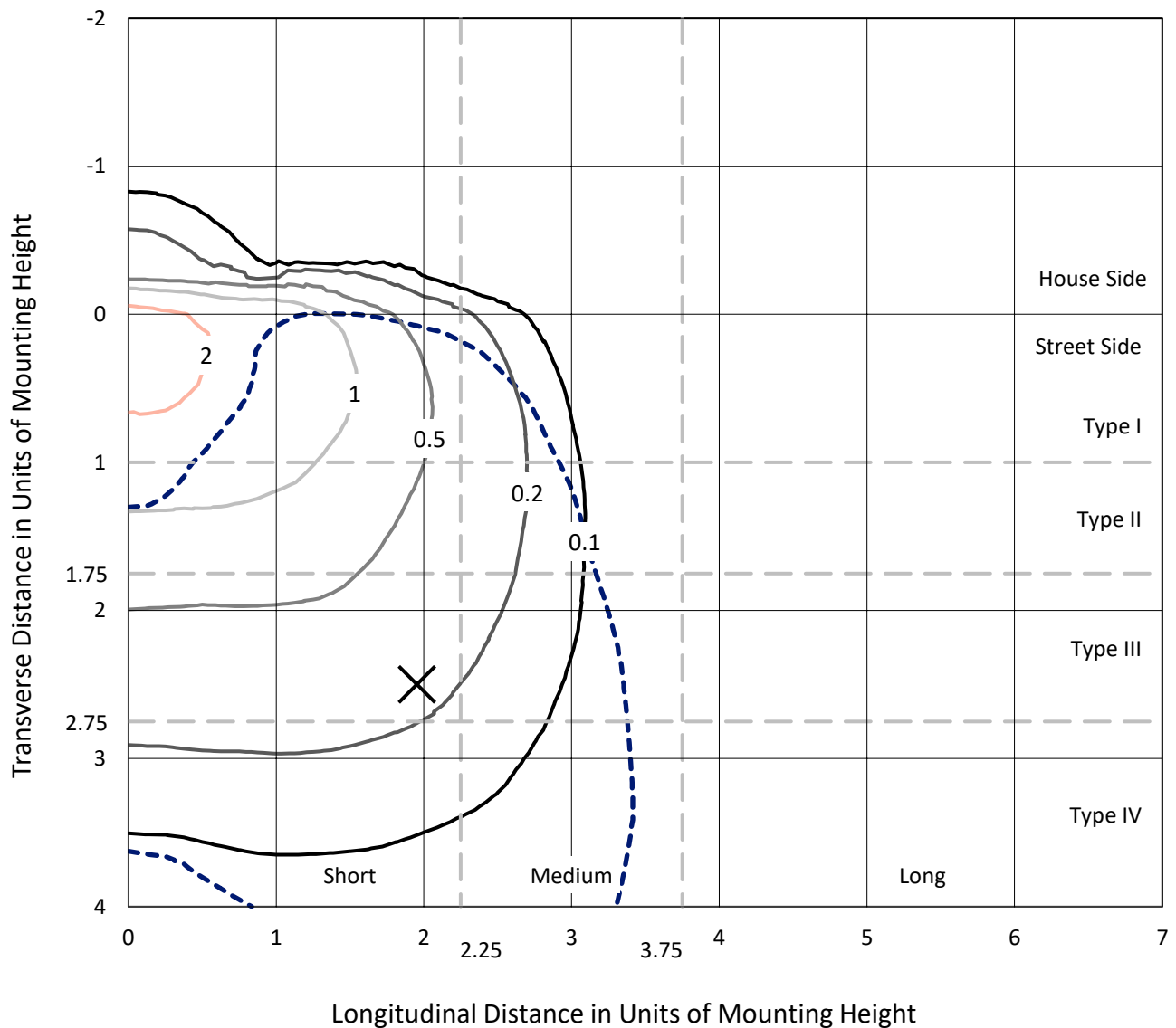
Lumens per Lamp: N/A
Luminaire Lumens: 3123.3 lumens
Efficiency: N/A
Efficacy: 97.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B0 - U0 - G1

Input Watts (W): 32
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

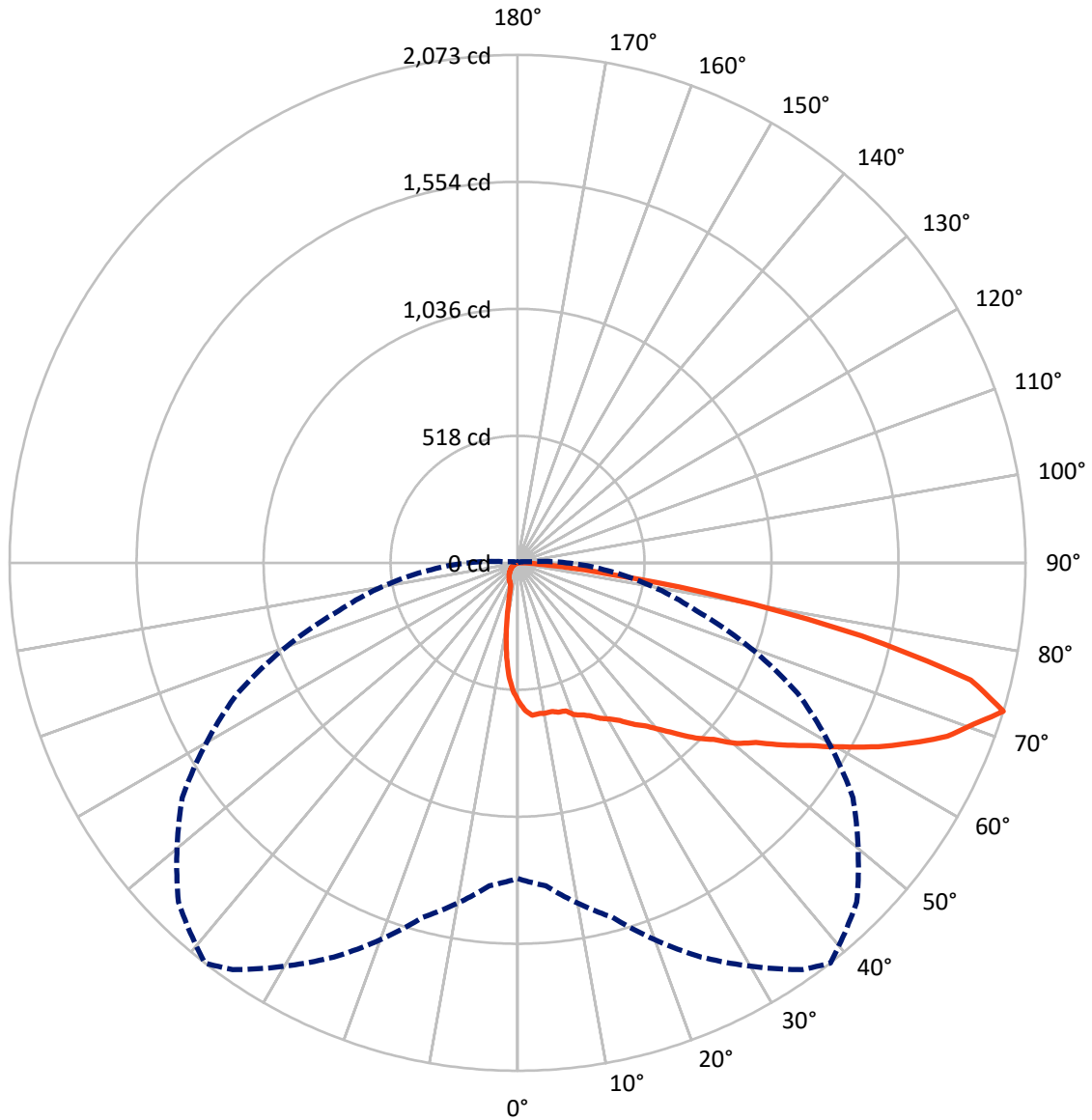
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 2.7 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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

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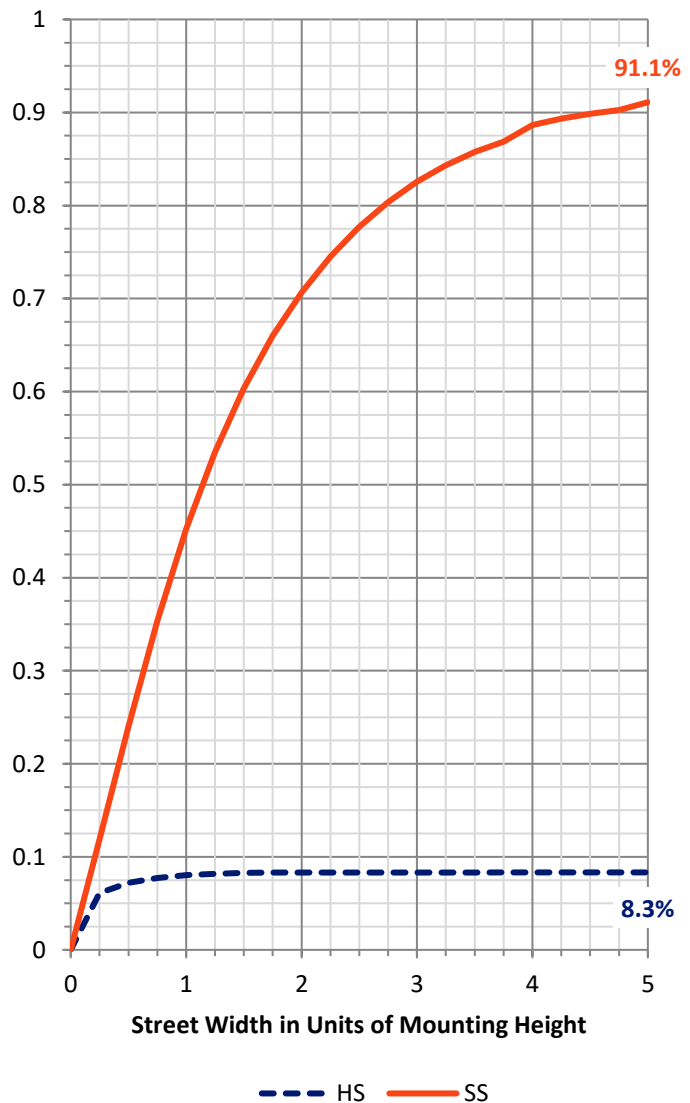
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	261.6	0.0	261.6
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	2861.7	0.0	2861.7
	% Fixture	91.6	0.0	91.6
Total	Lumens	3123.3	0.0	3123.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	49.4	1.6
10°-20°	121.0	3.9
20°-30°	194.0	6.2
30°-40°	293.0	9.4
40°-50°	445.9	14.3
50°-60°	627.8	20.1
60°-70°	766.8	24.6
70°-80°	556.8	17.8
80°-90°	68.6	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°	3123.3	100.0
0°-180°	3123.3	100.0

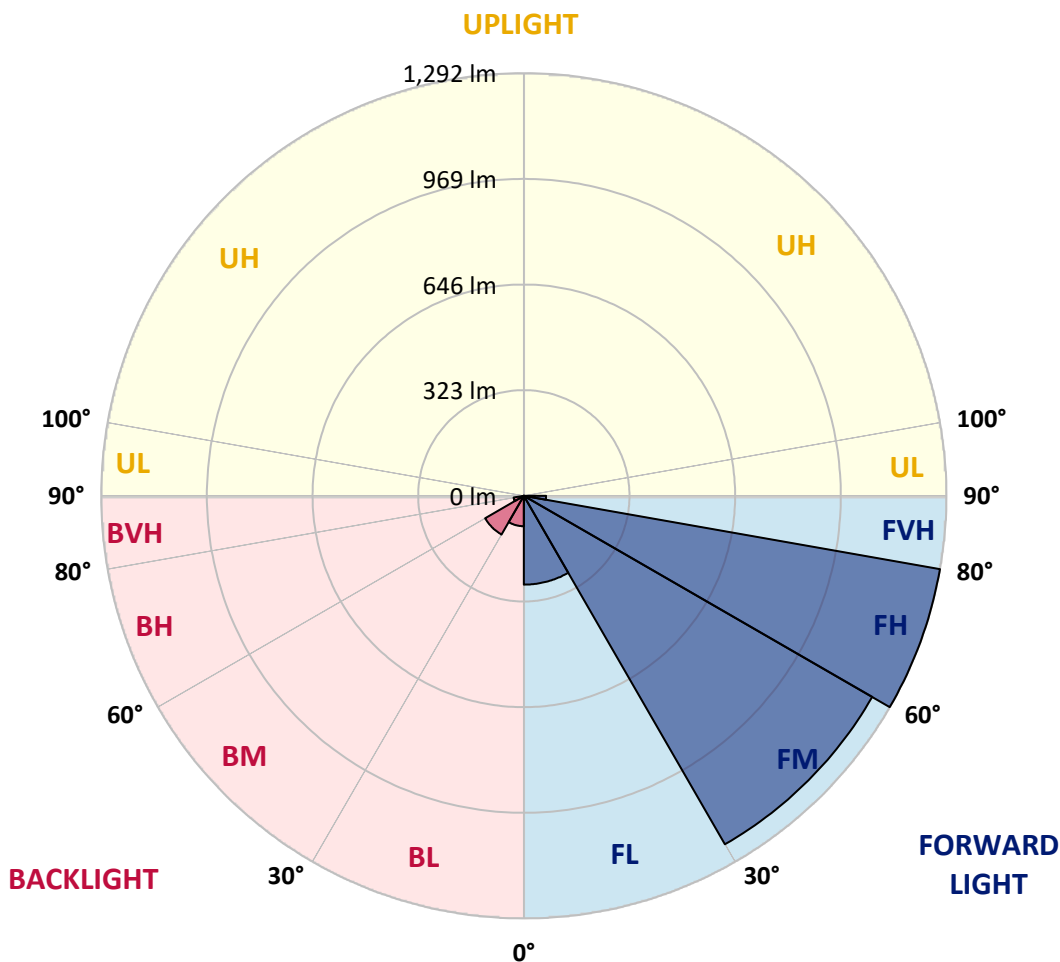


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	271.7	8.7			
FM (30°-60°)	1230.0	39.4			
FH (60°-80°)	1291.9	41.4			G1/1800
FVH (80°-90°)	68.2	2.2			G1/100
BL (0°-30°)	92.9	3.0	B0/110		
BM (30°-60°)	136.6	4.4	B0/220		
BH (60°-80°)	31.7	1.0	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-G1
 Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	564.8	564.8	564.8	564.8	564.8	564.8	564.8	564.8	564.8	564.8	564.8
2.5°	620.5	620.5	626.4	620.5	618.3	604.4	605.1	597.8	590.5	580.2	570.7
5°	627.8	632.9	636.6	631.5	623.4	624.9	630.0	616.1	596.3	583.9	562.6
7.5°	624.9	635.9	632.9	630.0	624.9	621.2	613.9	608.0	598.5	586.8	561.9
10°	622.7	626.4	627.1	624.9	613.9	624.2	616.1	606.6	594.9	580.9	550.2
12.5°	614.6	614.6	621.2	616.1	617.6	622.7	619.0	616.8	604.4	592.7	565.5
15°	605.8	608.8	619.0	627.1	634.4	632.2	630.0	623.4	612.4	599.2	570.7
17.5°	608.0	609.5	625.6	640.3	636.6	635.1	646.9	632.9	622.0	607.3	575.1
20°	616.1	620.5	638.8	657.9	661.5	661.5	657.1	649.1	633.7	613.9	583.1
22.5°	624.2	625.6	655.7	679.8	683.5	674.0	677.6	654.2	639.5	628.6	591.2
25°	654.9	652.0	684.2	703.3	701.1	691.6	687.9	667.4	661.5	641.7	608.8
27.5°	696.7	684.2	715.7	727.4	715.7	718.7	708.4	686.4	674.0	662.3	616.8
30°	722.3	729.6	746.5	758.2	738.4	739.2	734.0	709.9	690.8	693.8	643.9
32.5°	761.9	767.0	779.5	784.6	769.2	767.7	762.6	743.6	729.6	726.7	680.6
35°	804.4	813.9	814.6	816.1	802.2	808.0	800.7	773.6	780.9	786.1	724.5
37.5°	846.1	837.3	852.0	858.6	843.2	843.2	845.4	827.1	840.3	855.7	786.8
40°	862.2	865.9	891.5	886.4	904.7	893.7	901.8	897.4	908.4	943.6	874.7
42.5°	879.1	883.5	917.9	927.4	949.4	953.1	964.8	965.5	997.8	1055.6	958.9
45°	911.3	904.0	950.9	974.3	1010.2	1020.5	1034.4	1046.1	1096.7	1164.8	1054.9
47.5°	940.6	930.4	983.9	1030.7	1074.7	1076.9	1115.0	1127.4	1187.5	1265.2	1150.1
50°	981.7	985.3	1008.0	1088.6	1133.3	1158.9	1185.3	1226.3	1293.0	1375.8	1219.0
52.5°	1024.1	1020.5	1058.6	1137.7	1208.0	1217.5	1276.9	1323.0	1395.6	1457.8	1249.8
55°	1076.2	1080.6	1095.2	1199.2	1288.6	1311.3	1378.0	1426.3	1505.4	1493.0	1260.0
57.5°	1128.2	1123.8	1156.7	1268.1	1389.7	1406.5	1495.2	1523.8	1577.2	1516.4	1234.4
60°	1179.4	1187.5	1201.4	1345.7	1500.3	1525.2	1595.6	1610.2	1621.9	1527.4	1214.6
62.5°	1238.1	1219.0	1262.2	1427.8	1599.9	1652.0	1707.6	1649.8	1639.5	1507.6	1169.2
65°	1267.4	1273.2	1329.6	1521.6	1732.5	1770.6	1778.0	1703.2	1650.5	1463.7	1126.7
67.5°	1312.8	1320.8	1392.6	1617.5	1868.8	1890.1	1863.7	1751.6	1641.0	1406.5	973.6
70°	1318.6	1338.4	1476.9	1717.9	1954.5	1972.8	1952.3	1783.8	1564.1	1181.6	720.9
72.5°	1287.9	1323.0	1497.4	1775.0	2026.3	2072.5	1957.4	1670.3	1260.8	753.8	369.2
75°	972.9	1002.2	1370.7	1690.1	1898.8	1909.8	1718.6	1274.7	717.9	257.1	94.5
77.5°	504.0	554.6	915.0	1291.5	1446.8	1435.1	1196.3	750.9	246.9	67.4	38.1
80°	289.4	301.8	400.0	725.3	909.9	865.2	661.5	323.8	108.4	33.7	24.9
82.5°	142.9	160.4	215.4	324.5	454.9	374.3	248.3	194.1	60.8	18.3	22.0
85°	30.8	32.2	109.9	155.3	184.6	121.6	85.0	163.4	22.0	11.0	21.2
87.5°	22.0	21.2	30.8	69.6	51.3	31.5	50.5	85.7	5.1	5.1	4.4
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°	564.8	564.8	564.8	564.8	564.8	564.8	564.8	564.8	564.8	564.8	564.8
2.5°	564.8	558.2	550.9	537.0	533.3	531.1	518.7	517.9	515.7	510.6	508.4
5°	549.4	538.4	524.5	509.9	498.2	476.9	451.3	438.1	422.0	422.7	417.6
7.5°	547.2	526.7	506.9	476.2	438.8	399.3	359.7	334.1	315.7	304.8	307.0
10°	537.0	521.6	489.4	432.2	372.1	312.1	261.5	223.4	201.5	184.6	189.7
12.5°	541.4	511.3	465.9	389.7	304.0	230.0	167.0	130.4	114.3	108.4	109.9
15°	538.4	511.3	452.0	343.6	238.8	156.0	108.4	96.7	93.8	93.8	92.3
17.5°	547.2	517.2	428.6	298.2	171.4	104.0	93.0	90.8	88.6	88.6	88.6
20°	559.7	520.1	412.4	247.6	120.9	91.6	87.2	85.7	85.0	85.0	84.2
22.5°	560.4	517.2	382.4	191.9	93.0	86.4	82.8	82.0	82.0	80.6	80.6
25°	564.8	520.1	350.2	144.3	86.4	81.3	78.4	77.7	78.4	77.7	76.9
27.5°	575.8	525.3	317.9	105.5	81.3	76.9	74.7	74.0	74.0	74.0	72.5
30°	589.7	525.3	282.0	87.2	76.9	72.5	70.3	69.6	68.9	68.9	68.9
32.5°	619.0	542.1	238.1	77.7	71.1	67.4	65.2	65.2	64.5	64.5	63.7
35°	655.7	553.8	193.4	71.8	65.9	62.3	60.1	60.1	59.3	59.3	58.6
37.5°	701.1	583.1	148.0	67.4	60.8	57.1	54.9	54.9	54.9	54.2	54.2
40°	765.5	613.2	109.9	61.5	55.7	52.0	50.5	49.8	49.1	49.1	47.6
42.5°	834.4	659.3	82.0	57.1	51.3	48.4	46.2	44.0	44.0	41.8	41.8
45°	909.1	699.6	66.7	52.0	46.9	43.2	41.0	39.6	37.4	35.9	35.9
47.5°	982.4	724.5	58.6	46.2	42.5	39.6	37.4	34.4	31.5	30.8	30.0
50°	1041.7	731.8	52.0	41.8	38.8	35.9	33.0	29.3	26.4	24.9	24.2
52.5°	1041.7	691.6	46.9	37.4	35.2	32.2	28.6	24.2	20.5	19.0	18.3
55°	1041.7	627.8	41.8	34.4	31.5	29.3	24.2	19.8	16.1	13.9	13.2
57.5°	1026.3	550.9	37.4	30.8	27.8	24.9	20.5	15.4	11.7	9.5	9.5
60°	983.9	470.3	32.2	27.1	24.2	20.5	16.1	11.0	7.3	5.1	5.1
62.5°	929.6	374.3	27.8	22.7	19.8	16.8	12.5	7.3	2.9	1.5	1.5
65°	835.1	276.2	24.2	19.0	15.4	12.5	8.1	2.9	0.0	0.0	0.0
67.5°	689.4	184.6	19.0	15.4	13.2	8.8	5.1	0.7	0.0	0.0	0.0
70°	485.0	104.8	14.7	11.0	9.5	5.9	1.5	0.0	0.0	0.0	0.0
72.5°	199.3	46.2	10.3	8.1	6.6	2.9	0.0	0.0	0.0	0.0	0.0
75°	54.2	20.5	6.6	4.4	3.7	0.7	0.0	0.0	0.0	0.0	0.0
77.5°	31.5	13.9	2.9	1.5	1.5	0.0	0.0	0.0	0.0	0.0	0.0
80°	24.9	6.6	1.5	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	24.9	3.7	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	21.2	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.9	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)