

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: P677217

Luminaire Tested: **CCW-SA-1C-850-U-SL4-HSS**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P677217
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-1C-850-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) 5000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

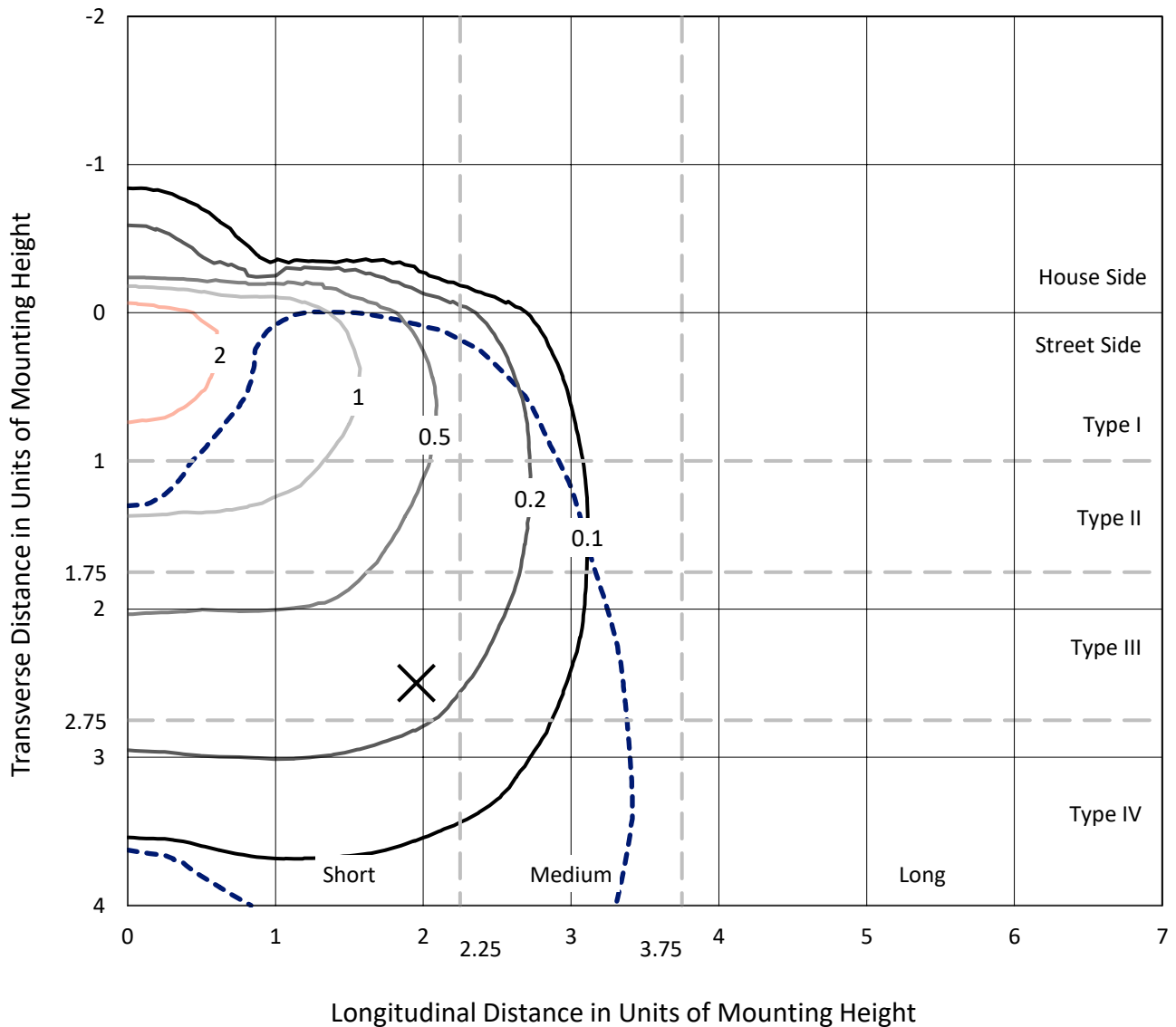
Lumens per Lamp: N/A
Luminaire Lumens: 3258.9 lumens
Efficiency: N/A
Efficacy: 101.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B0 - U0 - G1

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

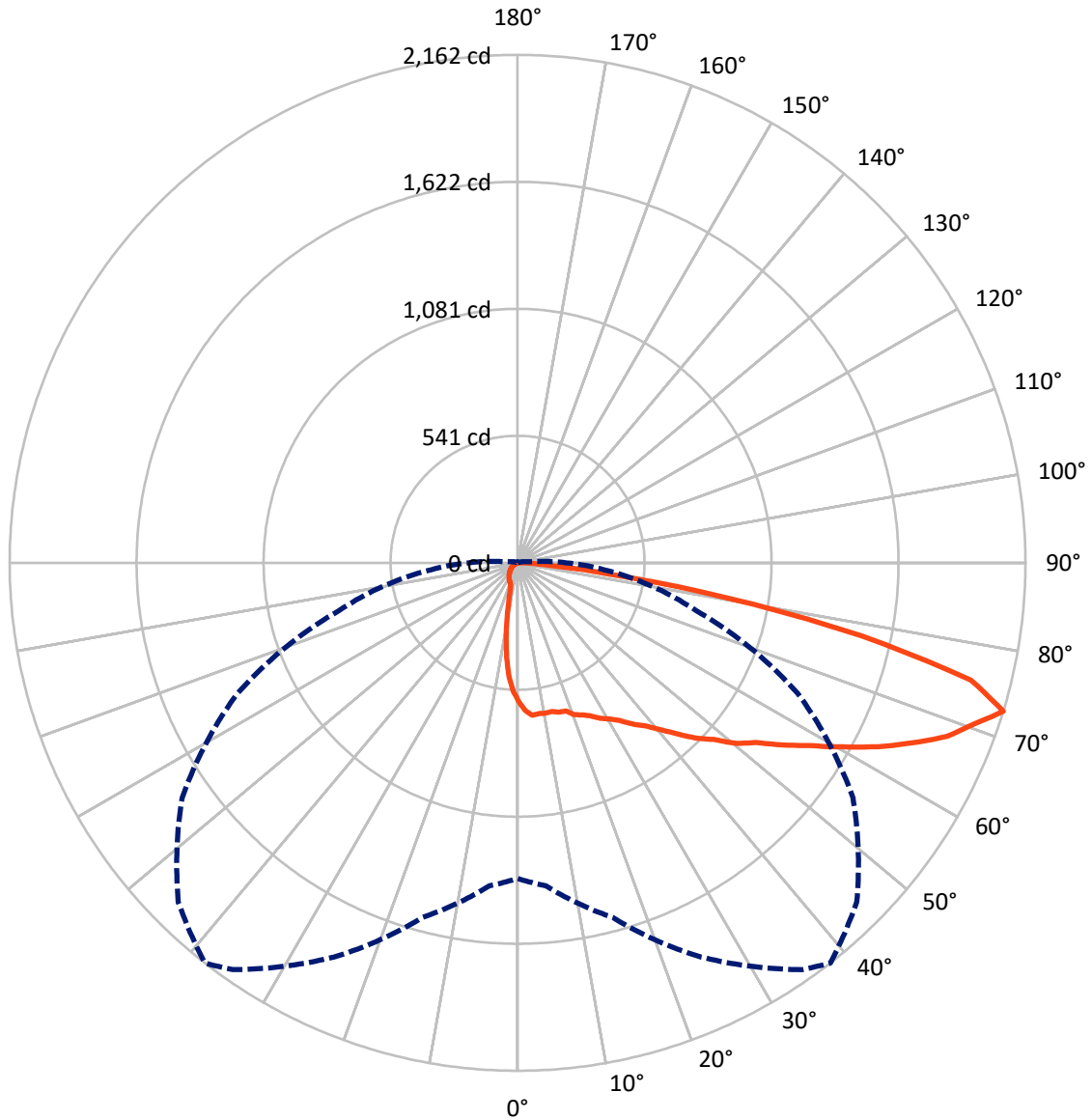
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 2.8 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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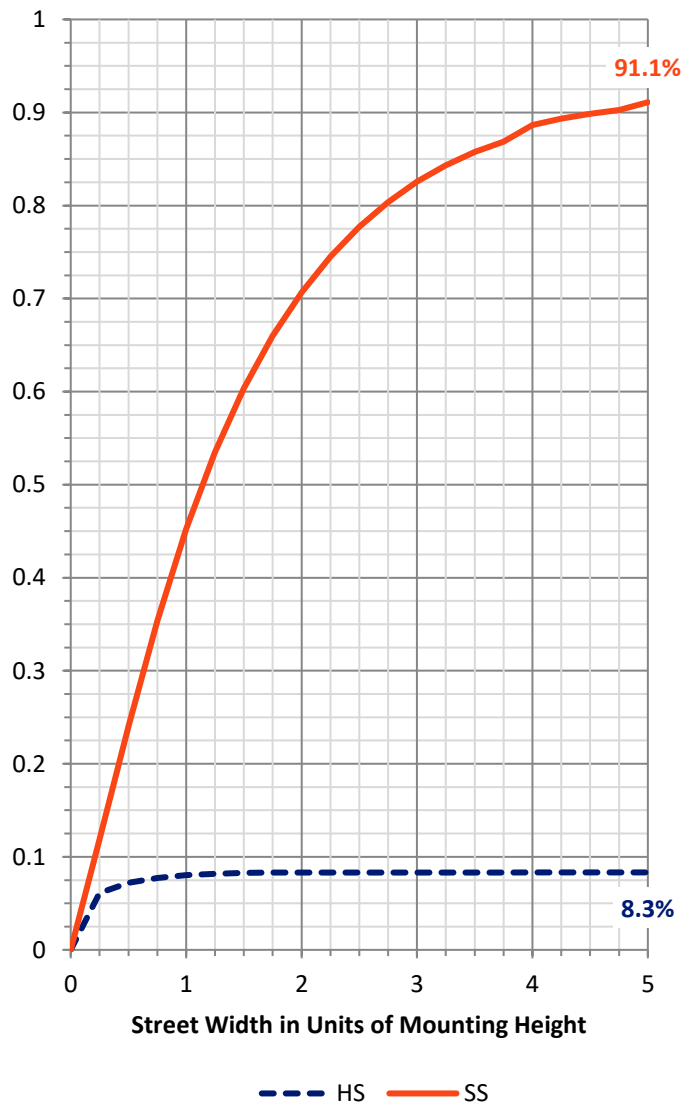
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	272.9	0.0	272.9
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	2985.9	0.0	2985.9
	% Fixture	91.6	0.0	91.6
Total	Lumens	3258.9	0.0	3258.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	51.6	1.6
10°-20°	126.3	3.9
20°-30°	202.5	6.2
30°-40°	305.7	9.4
40°-50°	465.2	14.3
50°-60°	655.0	20.1
60°-70°	800.1	24.6
70°-80°	581.0	17.8
80°-90°	71.6	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°	3258.9	100.0
0°-180°	3258.9	100.0

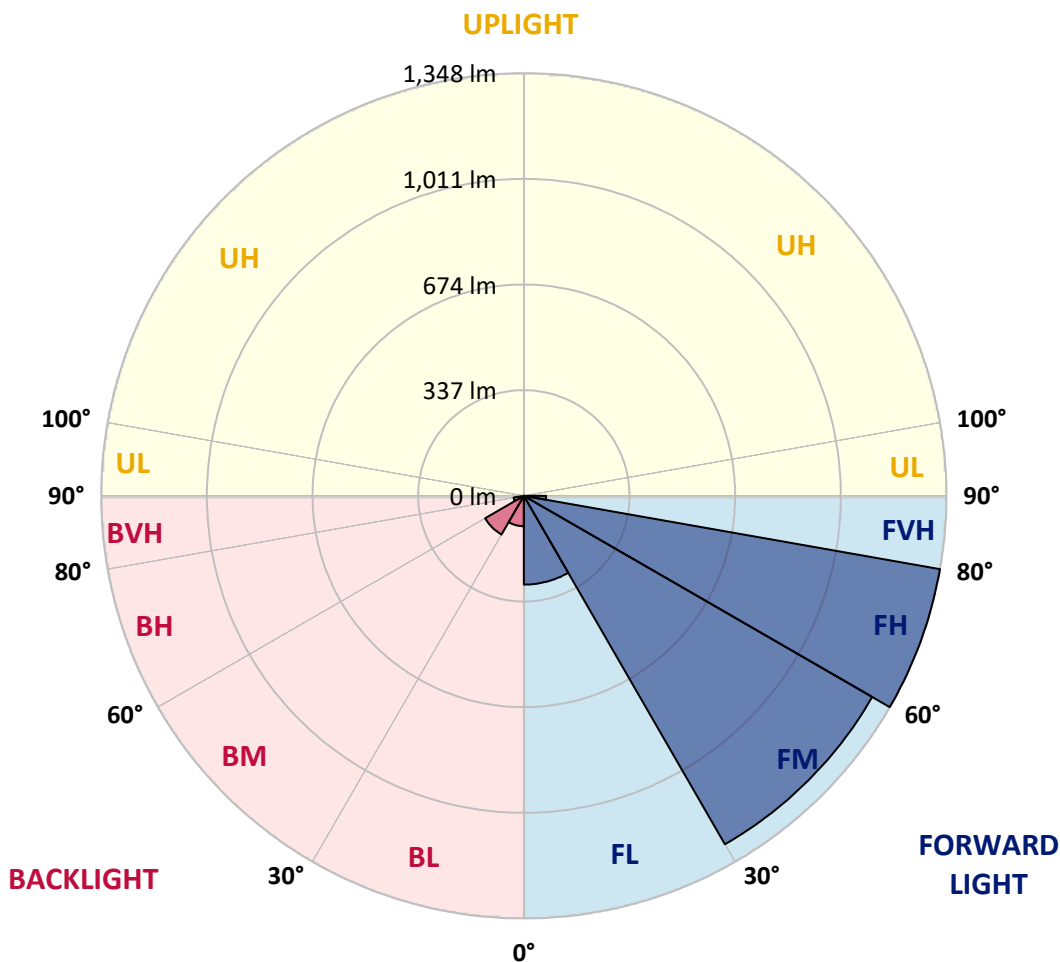


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	283.4	8.7			
FM (30°-60°)	1283.4	39.4			
FH (60°-80°)	1348.0	41.4			G1/1800
FVH (80°-90°)	71.2	2.2			G1/100
BL (0°-30°)	96.9	3.0	B0/110		
BM (30°-60°)	142.6	4.4	B0/220		
BH (60°-80°)	33.1	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°	589.3	589.3	589.3	589.3	589.3	589.3	589.3	589.3	589.3	589.3	589.3
2.5°	647.4	647.4	653.5	647.4	645.1	630.6	631.4	623.7	616.1	605.4	595.4
5°	655.1	660.4	664.2	658.9	650.5	652.0	657.4	642.8	622.2	609.2	587.0
7.5°	652.0	663.5	660.4	657.4	652.0	648.2	640.5	634.4	624.5	612.3	586.3
10°	649.7	653.5	654.3	652.0	640.5	651.2	642.8	632.9	620.7	606.1	574.0
12.5°	641.3	641.3	648.2	642.8	644.4	649.7	645.9	643.6	630.6	618.4	590.1
15°	632.1	635.2	645.9	654.3	661.9	659.7	657.4	650.5	639.0	625.3	595.4
17.5°	634.4	636.0	652.8	668.1	664.2	662.7	674.9	660.4	649.0	633.7	600.0
20°	642.8	647.4	666.5	686.4	690.2	690.2	685.6	677.2	661.2	640.5	608.4
22.5°	651.2	652.8	684.1	709.3	713.2	703.2	707.0	682.6	667.3	655.8	616.9
25°	683.4	680.3	713.9	733.8	731.5	721.6	717.7	696.3	690.2	669.6	635.2
27.5°	726.9	713.9	746.8	759.0	746.8	749.9	739.2	716.2	703.2	691.0	643.6
30°	753.7	761.3	778.9	791.1	770.5	771.3	765.9	740.7	720.8	723.9	671.9
32.5°	795.0	800.3	813.3	818.6	802.6	801.1	795.7	775.8	761.3	758.3	710.1
35°	839.3	849.2	850.0	851.5	837.0	843.1	835.5	807.2	814.8	820.2	756.0
37.5°	882.9	873.7	889.0	895.8	879.8	879.8	882.1	863.0	876.7	892.8	820.9
40°	899.7	903.5	930.2	924.9	944.0	932.5	940.9	936.4	947.8	984.5	912.7
42.5°	917.3	921.8	957.8	967.7	990.6	994.5	1006.7	1007.4	1041.1	1101.5	1000.6
45°	950.9	943.2	992.2	1016.6	1054.1	1064.8	1079.3	1091.5	1144.3	1215.4	1100.7
47.5°	981.5	970.8	1026.6	1075.5	1121.3	1123.6	1163.4	1176.4	1239.1	1320.1	1200.1
50°	1024.3	1028.1	1051.8	1135.9	1182.5	1209.2	1236.8	1279.6	1349.1	1435.5	1271.9
52.5°	1068.6	1064.8	1104.5	1187.1	1260.5	1270.4	1332.3	1380.5	1456.1	1521.1	1304.0
55°	1122.9	1127.5	1142.7	1251.3	1344.5	1368.2	1437.8	1488.2	1570.8	1557.8	1314.7
57.5°	1177.1	1172.6	1206.9	1323.1	1450.0	1467.6	1560.1	1589.9	1645.7	1582.3	1288.0
60°	1230.6	1239.1	1253.6	1404.2	1565.4	1591.4	1664.8	1680.1	1692.3	1593.7	1267.3
62.5°	1291.8	1271.9	1317.0	1489.8	1669.4	1723.7	1781.8	1721.4	1710.7	1573.1	1219.9
65°	1322.4	1328.5	1387.3	1587.6	1807.7	1847.5	1855.1	1777.2	1722.1	1527.2	1175.6
67.5°	1369.8	1378.2	1453.1	1687.7	1949.9	1972.1	1944.6	1827.6	1712.2	1467.6	1015.9
70°	1375.9	1396.5	1541.0	1792.5	2039.4	2058.5	2037.1	1861.3	1631.9	1232.9	752.1
72.5°	1343.8	1380.5	1562.4	1852.1	2114.3	2162.4	2042.4	1742.8	1315.5	786.5	385.2
75°	1015.1	1045.7	1430.1	1763.4	1981.3	1992.7	1793.2	1330.0	749.1	268.3	98.6
77.5°	525.9	578.6	954.7	1347.6	1509.6	1497.4	1248.2	783.5	257.6	70.3	39.7
80°	301.9	314.9	417.3	756.7	949.4	902.7	690.2	337.9	113.1	35.2	26.0
82.5°	149.1	167.4	224.7	338.6	474.7	390.6	259.1	202.6	63.4	19.1	22.9
85°	32.1	33.6	114.7	162.0	192.6	126.9	88.7	170.5	22.9	11.5	22.2
87.5°	22.9	22.2	32.1	72.6	53.5	32.9	52.7	89.4	5.4	5.4	4.6
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°	589.3	589.3	589.3	589.3	589.3	589.3	589.3	589.3	589.3	589.3	589.3
2.5°	589.3	582.5	574.8	560.3	556.5	554.2	541.2	540.4	538.1	532.8	530.5
5°	573.3	561.8	547.3	532.0	519.8	497.6	470.9	457.1	440.3	441.0	435.7
7.5°	571.0	549.6	528.9	496.8	457.9	416.6	375.3	348.6	329.4	318.0	320.3
10°	560.3	544.2	510.6	451.0	388.3	325.6	272.9	233.1	210.2	192.6	198.0
12.5°	564.9	533.5	486.1	406.6	317.2	240.0	174.3	136.1	119.2	113.1	114.7
15°	561.8	533.5	471.6	358.5	249.2	162.8	113.1	100.9	97.8	97.8	96.3
17.5°	571.0	539.6	447.2	311.1	178.9	108.5	97.1	94.8	92.5	92.5	92.5
20°	584.0	542.7	430.3	258.4	126.1	95.5	91.0	89.4	88.7	88.7	87.9
22.5°	584.7	539.6	399.0	200.3	97.1	90.2	86.4	85.6	85.6	84.1	84.1
25°	589.3	542.7	365.4	150.6	90.2	84.8	81.8	81.0	81.8	81.0	80.3
27.5°	600.8	548.1	331.7	110.1	84.8	80.3	78.0	77.2	77.2	77.2	75.7
30°	615.3	548.1	294.3	91.0	80.3	75.7	73.4	72.6	71.9	71.9	71.9
32.5°	645.9	565.6	248.4	81.0	74.1	70.3	68.0	68.0	67.3	67.3	66.5
35°	684.1	577.9	201.8	74.9	68.8	65.0	62.7	62.7	61.9	61.9	61.2
37.5°	731.5	608.4	154.4	70.3	63.4	59.6	57.3	57.3	57.3	56.6	56.6
40°	798.8	639.8	114.7	64.2	58.1	54.3	52.7	52.0	51.2	51.2	49.7
42.5°	870.6	687.9	85.6	59.6	53.5	50.4	48.2	45.9	45.9	43.6	43.6
45°	948.6	730.0	69.6	54.3	48.9	45.1	42.8	41.3	39.0	37.5	37.5
47.5°	1025.0	756.0	61.2	48.2	44.3	41.3	39.0	35.9	32.9	32.1	31.3
50°	1086.9	763.6	54.3	43.6	40.5	37.5	34.4	30.6	27.5	26.0	25.2
52.5°	1086.9	721.6	48.9	39.0	36.7	33.6	29.8	25.2	21.4	19.9	19.1
55°	1086.9	655.1	43.6	35.9	32.9	30.6	25.2	20.6	16.8	14.5	13.8
57.5°	1070.9	574.8	39.0	32.1	29.0	26.0	21.4	16.1	12.2	9.9	9.9
60°	1026.6	490.7	33.6	28.3	25.2	21.4	16.8	11.5	7.6	5.4	5.4
62.5°	970.0	390.6	29.0	23.7	20.6	17.6	13.0	7.6	3.1	1.5	1.5
65°	871.4	288.2	25.2	19.9	16.1	13.0	8.4	3.1	0.0	0.0	0.0
67.5°	719.3	192.6	19.9	16.1	13.8	9.2	5.4	0.8	0.0	0.0	0.0
70°	506.0	109.3	15.3	11.5	9.9	6.1	1.5	0.0	0.0	0.0	0.0
72.5°	207.9	48.2	10.7	8.4	6.9	3.1	0.0	0.0	0.0	0.0	0.0
75°	56.6	21.4	6.9	4.6	3.8	0.8	0.0	0.0	0.0	0.0	0.0
77.5°	32.9	14.5	3.1	1.5	1.5	0.0	0.0	0.0	0.0	0.0	0.0
80°	26.0	6.9	1.5	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	26.0	3.8	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	22.2	1.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	3.1	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)