

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: P677210

Luminaire Tested: **CCW-SA-2A-840-U-SL4-HSS**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P677210
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-2A-840-U-SL4-HSS
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @350mA w/
SL4 distribution lens and House Side Shield
Light Source: (32) 4000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

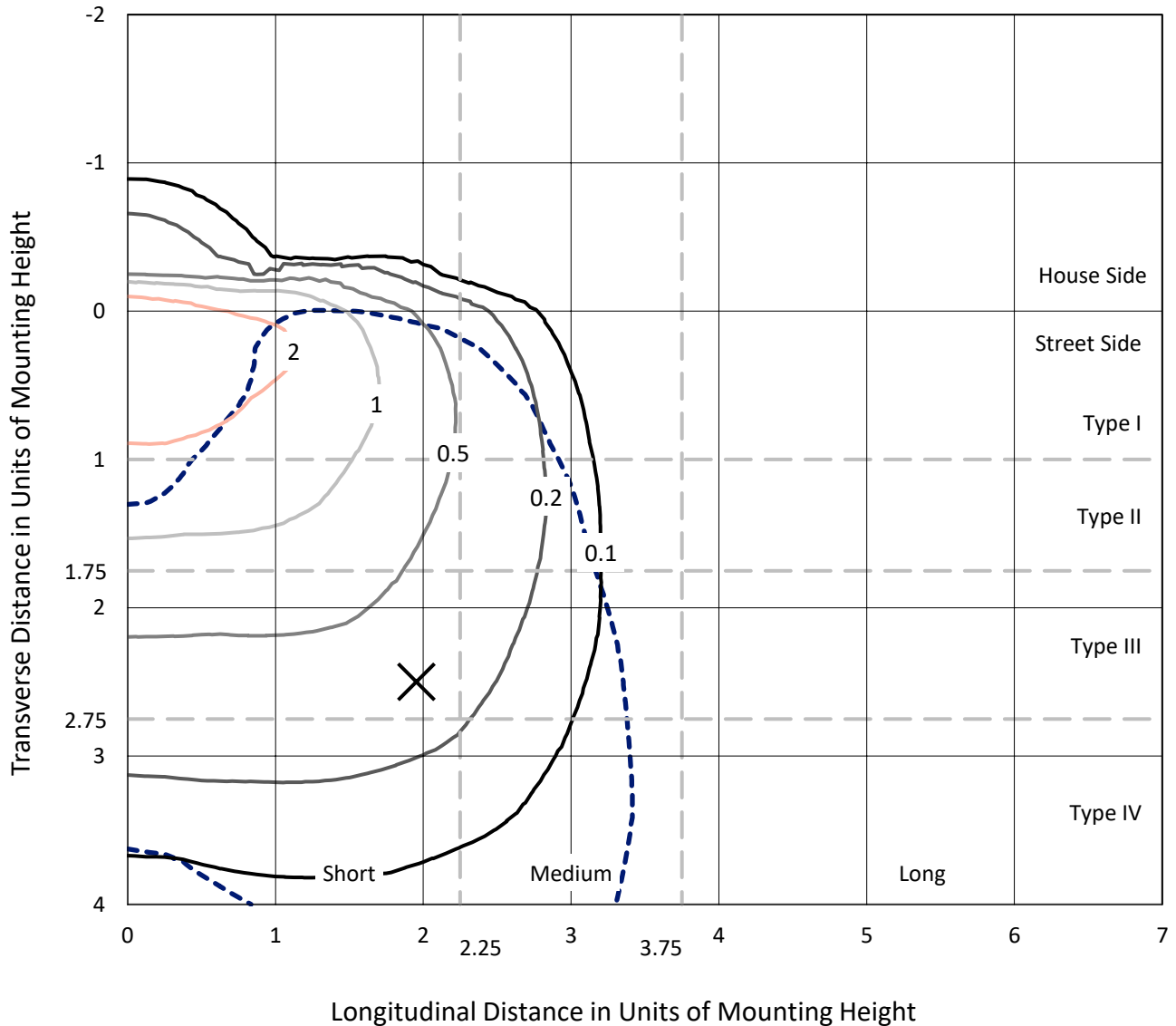
Lumens per Lamp: N/A
Luminaire Lumens: 3853.5 lumens
Efficiency: N/A
Efficacy: 106.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G1

Input Watts (W): 36.2
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

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Iso-Footcandle Lines of Horizontal Illumination

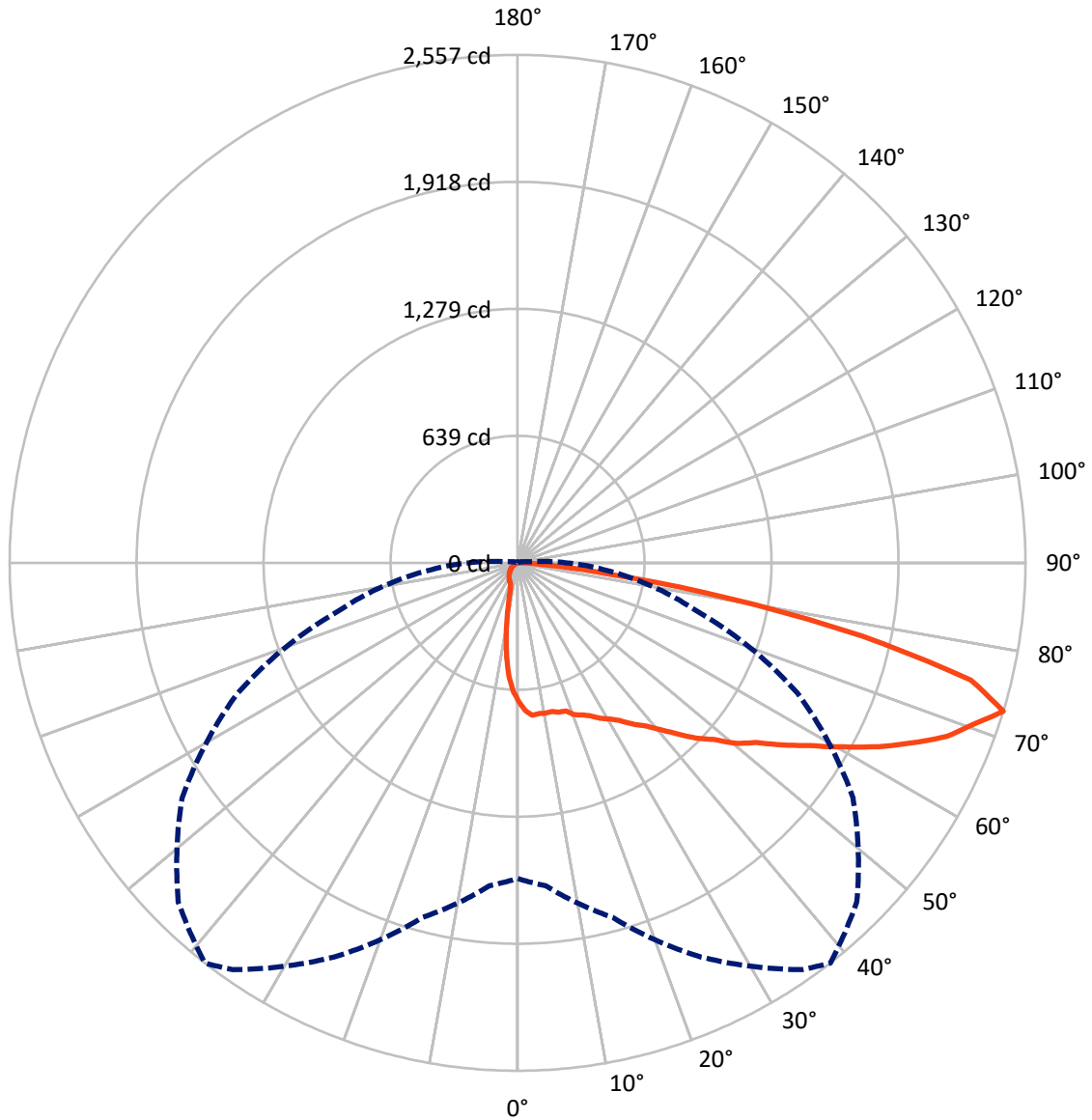
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 3.4 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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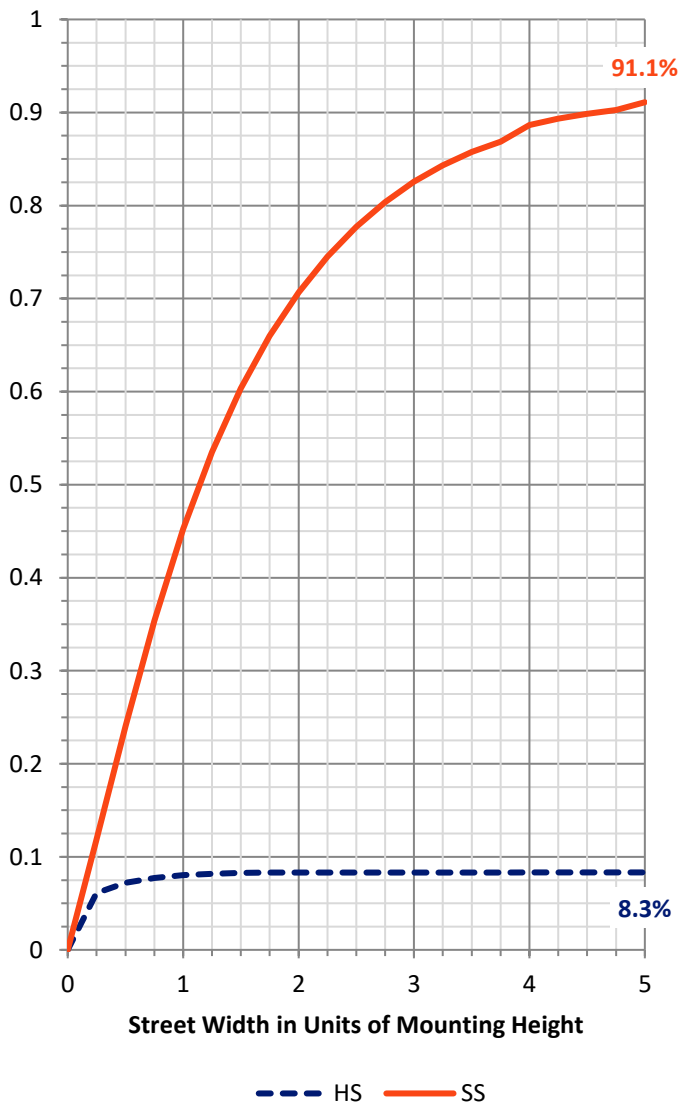
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	322.7	0.0	322.7
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	3530.8	0.0	3530.8
	% Fixture	91.6	0.0	91.6
Total	Lumens	3853.5	0.0	3853.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	61.0	1.6
10°-20°	149.3	3.9
20°-30°	239.4	6.2
30°-40°	361.5	9.4
40°-50°	550.1	14.3
50°-60°	774.5	20.1
60°-70°	946.1	24.6
70°-80°	687.0	17.8
80°-90°	84.6	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°	3853.5	100.0
0°-180°	3853.5	100.0

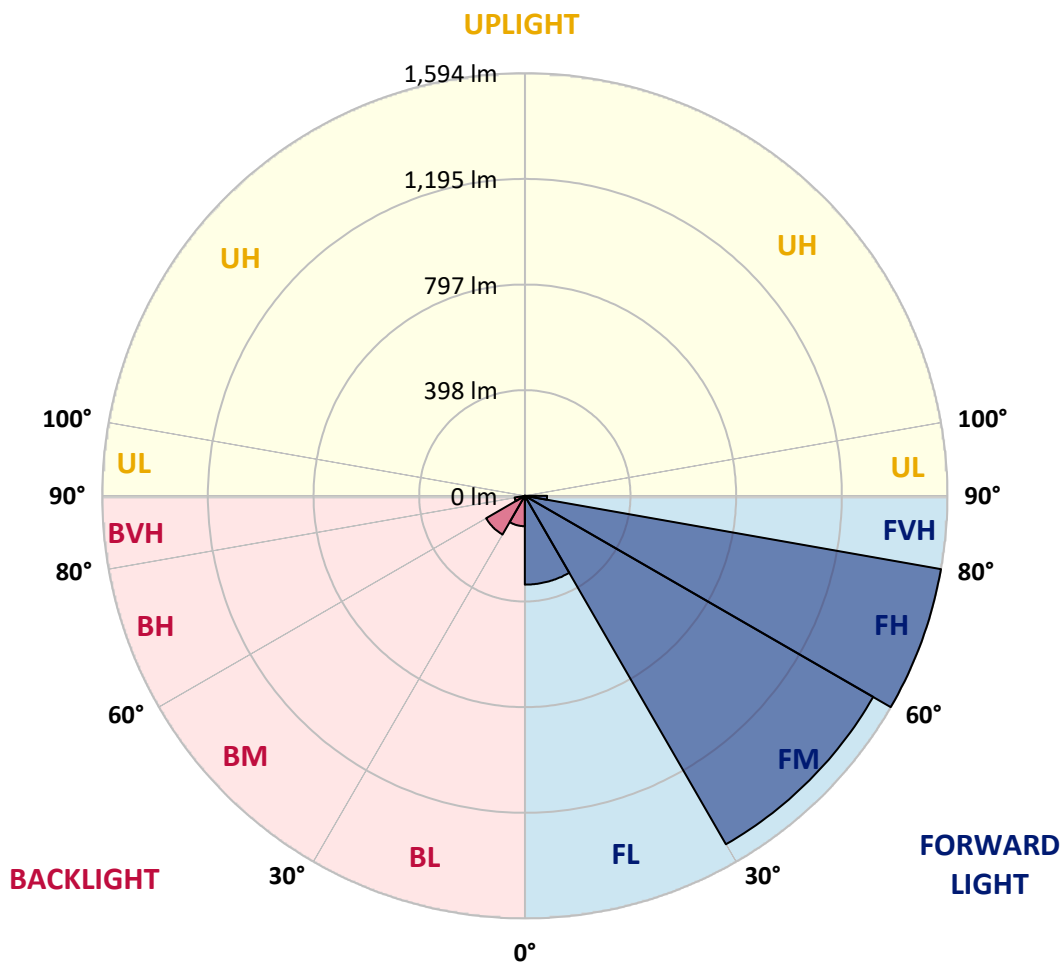


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	335.2	8.7			
FM (30°-60°)	1517.5	39.4			
FH (60°-80°)	1593.9	41.4			G1/1800
FVH (80°-90°)	84.2	2.2			G1/100
BL (0°-30°)	114.6	3.0	B1/500		
BM (30°-60°)	168.6	4.4	B0/220		
BH (60°-80°)	39.1	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: B1-U0-G1
 Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	696.9	696.9	696.9	696.9	696.9	696.9	696.9	696.9	696.9	696.9	696.9
2.5°	765.6	765.6	772.8	765.6	762.8	745.7	746.6	737.5	728.5	715.8	704.1
5°	774.6	780.9	785.4	779.1	769.2	771.0	777.3	760.1	735.7	720.4	694.2
7.5°	771.0	784.5	780.9	777.3	771.0	766.5	757.4	750.2	738.4	724.0	693.2
10°	768.3	772.8	773.7	771.0	757.4	770.1	760.1	748.4	733.9	716.7	678.8
12.5°	758.3	758.3	766.5	760.1	761.9	768.3	763.7	761.0	745.7	731.2	697.8
15°	747.5	751.1	763.7	773.7	782.7	780.0	777.3	769.2	755.6	739.3	704.1
17.5°	750.2	752.0	771.9	790.0	785.4	783.6	798.1	780.9	767.4	749.3	709.5
20°	760.1	765.6	788.2	811.7	816.2	816.2	810.7	800.8	781.8	757.4	719.5
22.5°	770.1	771.9	808.9	838.8	843.3	831.5	836.1	807.1	789.1	775.5	729.4
25°	808.0	804.4	844.2	867.7	865.0	853.2	848.7	823.4	816.2	791.8	751.1
27.5°	859.6	844.2	883.1	897.5	883.1	886.7	874.0	846.9	831.5	817.1	761.0
30°	891.2	900.2	921.0	935.5	911.1	912.0	905.7	875.8	852.3	855.9	794.5
32.5°	940.0	946.3	961.7	968.0	949.0	947.2	940.9	917.4	900.2	896.6	839.7
35°	992.4	1004.2	1005.1	1006.9	989.7	996.9	987.9	954.5	963.5	969.8	893.9
37.5°	1043.9	1033.1	1051.2	1059.3	1040.3	1040.3	1043.0	1020.4	1036.7	1055.7	970.7
40°	1063.8	1068.3	1100.0	1093.7	1116.2	1102.7	1112.6	1107.2	1120.8	1164.2	1079.2
42.5°	1084.6	1090.0	1132.5	1144.3	1171.4	1175.9	1190.4	1191.3	1231.0	1302.4	1183.1
45°	1124.4	1115.3	1173.2	1202.1	1246.4	1259.1	1276.2	1290.7	1353.1	1437.1	1301.5
47.5°	1160.5	1147.9	1213.9	1271.7	1325.9	1328.7	1375.7	1391.0	1465.1	1560.9	1419.0
50°	1211.2	1215.7	1243.7	1343.1	1398.2	1429.9	1462.4	1513.0	1595.3	1697.4	1504.0
52.5°	1263.6	1259.1	1306.1	1403.7	1490.4	1502.2	1575.4	1632.3	1721.8	1798.7	1542.0
55°	1327.7	1333.2	1351.2	1479.6	1589.9	1617.9	1700.1	1759.8	1857.4	1842.0	1554.6
57.5°	1391.9	1386.5	1427.2	1564.6	1714.6	1735.4	1844.7	1880.0	1946.0	1871.0	1523.0
60°	1455.2	1465.1	1482.3	1660.4	1851.1	1881.8	1968.6	1986.7	2001.1	1884.5	1498.6
62.5°	1527.5	1504.0	1557.3	1761.6	1974.0	2038.2	2106.9	2035.5	2022.8	1860.1	1442.5
65°	1563.7	1570.9	1640.5	1877.3	2137.6	2184.6	2193.6	2101.4	2036.4	1805.9	1390.1
67.5°	1619.7	1629.6	1718.2	1995.7	2305.7	2331.9	2299.4	2161.1	2024.6	1735.4	1201.2
70°	1626.9	1651.3	1822.2	2119.5	2411.5	2434.1	2408.7	2200.9	1929.7	1457.9	889.4
72.5°	1589.0	1632.3	1847.5	2190.0	2500.0	2557.0	2415.1	2060.8	1555.5	930.1	455.5
75°	1200.3	1236.5	1691.1	2085.2	2342.8	2356.3	2120.4	1572.7	885.8	317.2	116.6
77.5°	621.8	684.2	1128.9	1593.5	1785.1	1770.6	1476.0	926.4	304.6	83.2	47.0
80°	357.0	372.4	493.5	894.8	1122.6	1067.4	816.2	399.5	133.8	41.6	30.7
82.5°	176.2	197.9	265.7	400.4	561.3	461.9	306.4	239.5	75.0	22.6	27.1
85°	38.0	39.8	135.6	191.6	227.8	150.0	104.8	201.6	27.1	13.6	26.2
87.5°	27.1	26.2	38.0	85.9	63.3	38.9	62.4	105.7	6.3	6.3	5.4
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°	696.9	696.9	696.9	696.9	696.9	696.9	696.9	696.9	696.9	696.9	696.9
2.5°	696.9	688.7	679.7	662.5	658.0	655.3	639.9	639.0	636.3	630.0	627.3
5°	677.9	664.3	647.2	629.1	614.6	588.4	556.8	540.5	520.6	521.5	515.2
7.5°	675.2	649.9	625.5	587.5	541.4	492.6	443.8	412.2	389.6	376.0	378.7
10°	662.5	643.5	603.8	533.3	459.2	385.0	322.7	275.7	248.6	227.8	234.1
12.5°	667.9	630.9	574.8	480.8	375.1	283.8	206.1	160.9	141.0	133.8	135.6
15°	664.3	630.9	557.7	423.9	294.7	192.5	133.8	119.3	115.7	115.7	113.9
17.5°	675.2	638.1	528.7	367.9	211.5	128.3	114.8	112.1	109.4	109.4	109.4
20°	690.5	641.7	508.9	305.5	149.1	113.0	107.6	105.7	104.8	104.8	103.9
22.5°	691.4	638.1	471.8	236.8	114.8	106.7	102.1	101.2	101.2	99.4	99.4
25°	696.9	641.7	432.0	178.1	106.7	100.3	96.7	95.8	96.7	95.8	94.9
27.5°	710.4	648.1	392.3	130.2	100.3	94.9	92.2	91.3	91.3	91.3	89.5
30°	727.6	648.1	348.0	107.6	94.9	89.5	86.8	85.9	85.0	85.0	85.0
32.5°	763.7	668.8	293.7	95.8	87.7	83.2	80.4	80.4	79.5	79.5	78.6
35°	808.9	683.3	238.6	88.6	81.3	76.8	74.1	74.1	73.2	73.2	72.3
37.5°	865.0	719.5	182.6	83.2	75.0	70.5	67.8	67.8	67.8	66.9	66.9
40°	944.5	756.5	135.6	75.9	68.7	64.2	62.4	61.5	60.6	60.6	58.7
42.5°	1029.5	813.5	101.2	70.5	63.3	59.7	56.9	54.2	54.2	51.5	51.5
45°	1121.7	863.2	82.2	64.2	57.8	53.3	50.6	48.8	46.1	44.3	44.3
47.5°	1212.1	893.9	72.3	56.9	52.4	48.8	46.1	42.5	38.9	38.0	37.1
50°	1285.3	902.9	64.2	51.5	47.9	44.3	40.7	36.2	32.5	30.7	29.8
52.5°	1285.3	853.2	57.8	46.1	43.4	39.8	35.2	29.8	25.3	23.5	22.6
55°	1285.3	774.6	51.5	42.5	38.9	36.2	29.8	24.4	19.9	17.2	16.3
57.5°	1266.3	679.7	46.1	38.0	34.3	30.7	25.3	19.0	14.5	11.7	11.7
60°	1213.9	580.3	39.8	33.4	29.8	25.3	19.9	13.6	9.0	6.3	6.3
62.5°	1147.0	461.9	34.3	28.0	24.4	20.8	15.4	9.0	3.6	1.8	1.8
65°	1030.4	340.7	29.8	23.5	19.0	15.4	9.9	3.6	0.0	0.0	0.0
67.5°	850.5	227.8	23.5	19.0	16.3	10.8	6.3	0.9	0.0	0.0	0.0
70°	598.3	129.2	18.1	13.6	11.7	7.2	1.8	0.0	0.0	0.0	0.0
72.5°	245.8	56.9	12.7	9.9	8.1	3.6	0.0	0.0	0.0	0.0	0.0
75°	66.9	25.3	8.1	5.4	4.5	0.9	0.0	0.0	0.0	0.0	0.0
77.5°	38.9	17.2	3.6	1.8	1.8	0.0	0.0	0.0	0.0	0.0	0.0
80°	30.7	8.1	1.8	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	30.7	4.5	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	26.2	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	3.6	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)