

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: P677207

Luminaire Tested: **CCW-SA-1D-840-U-SL4-HSS**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P677207
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-1D-840-U-SL4-HSS
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @800mA w/
SL4 distribution lens and House Side Shield
Light Source: (16) 4000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

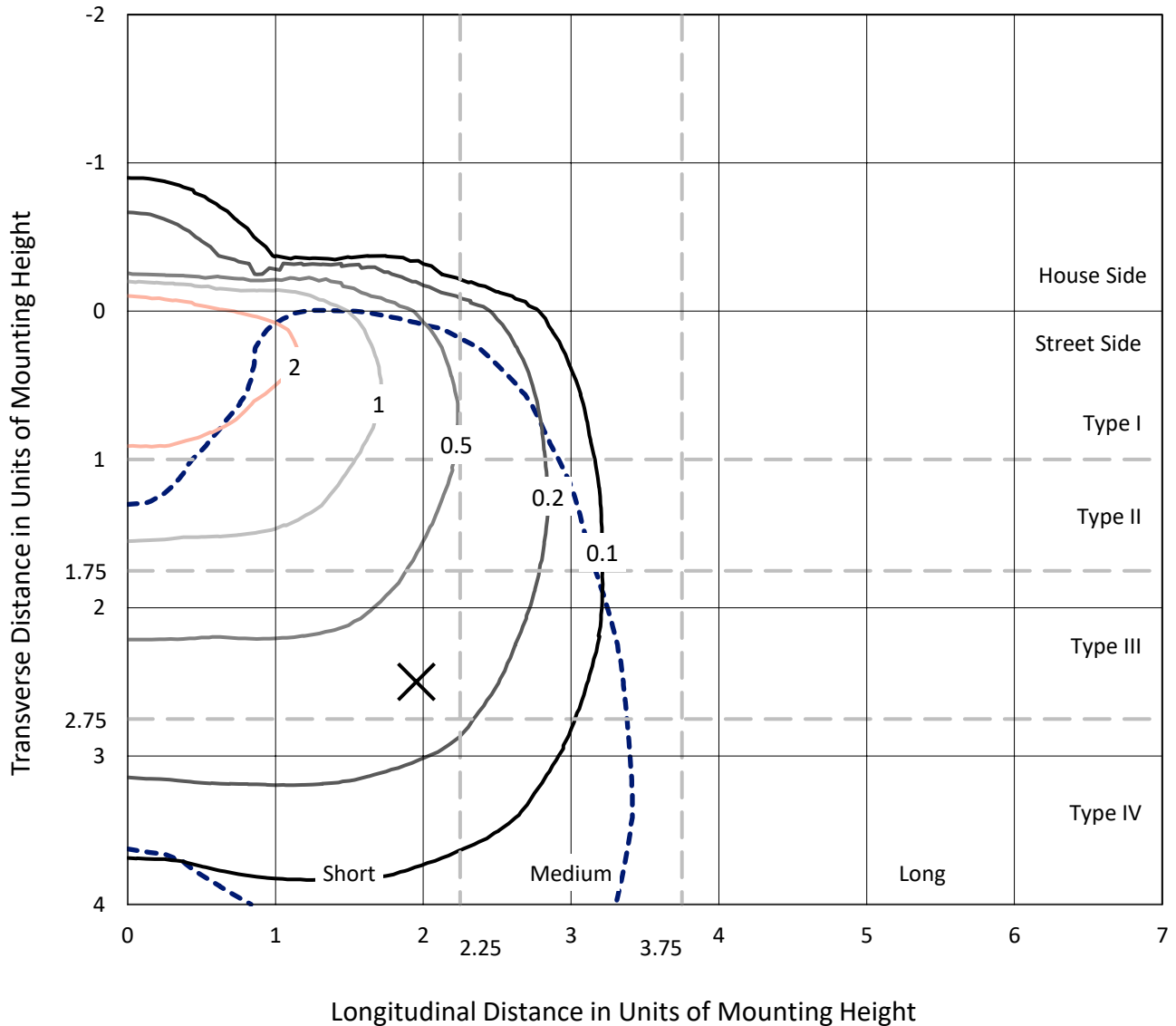
Lumens per Lamp: N/A
Luminaire Lumens: 3927.6 lumens
Efficiency: N/A
Efficacy: 89.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G1

Input Watts (W): 44
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

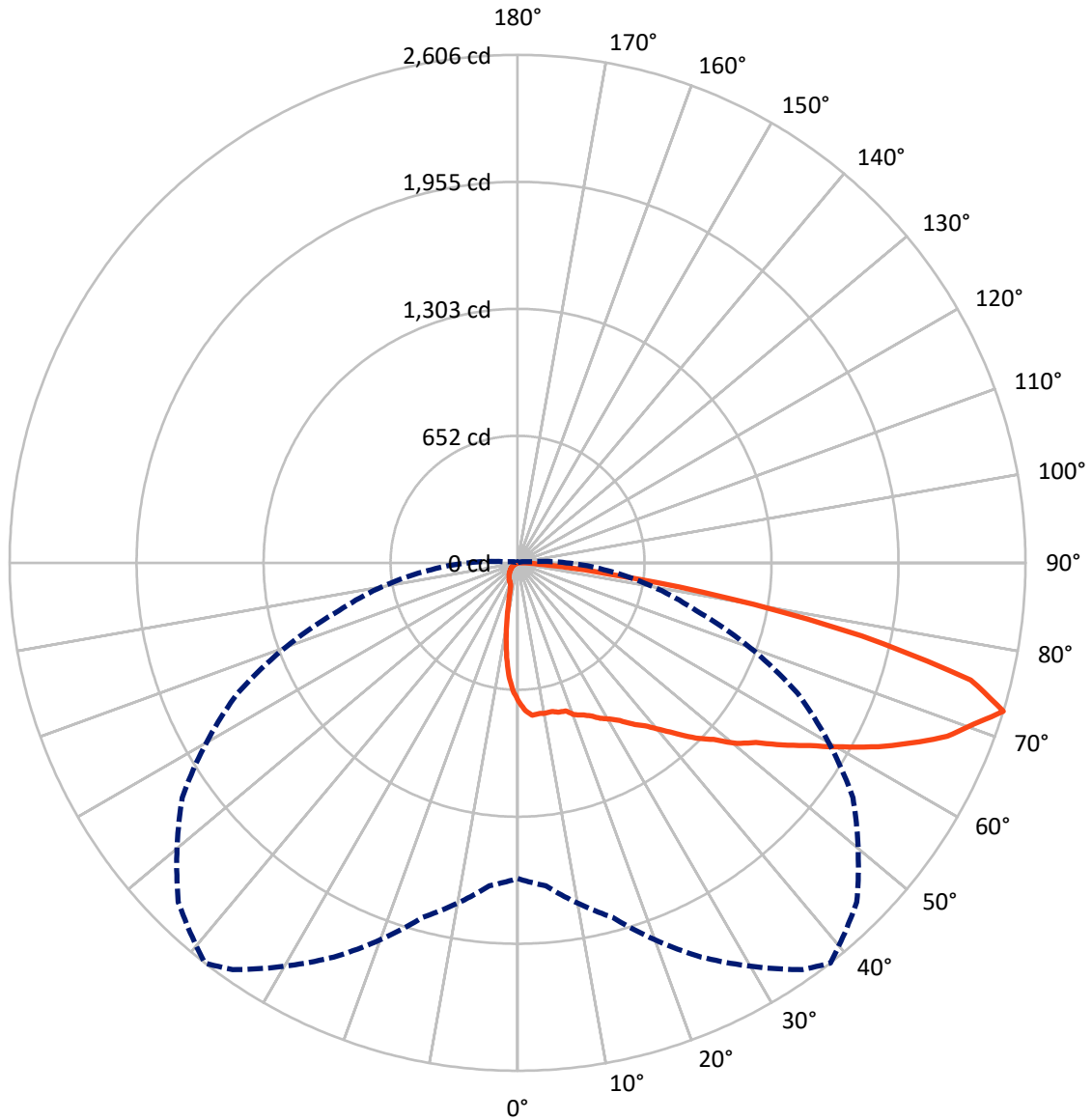
× Max cd
 - - - 1/2 Max cd



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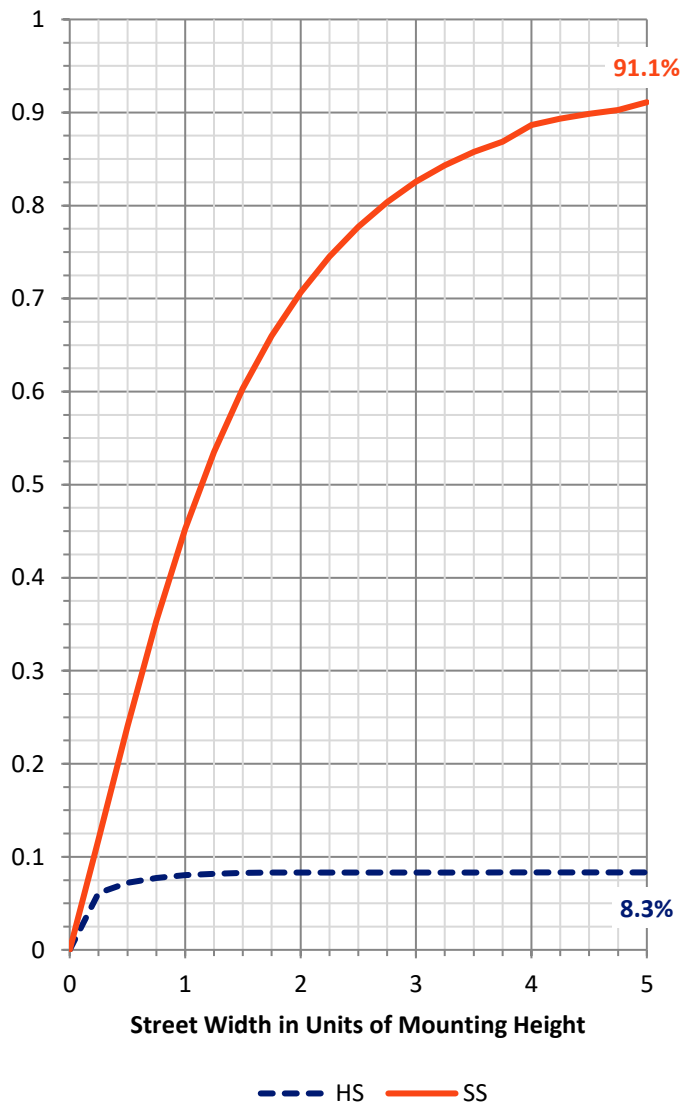
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	328.9	0.0	328.9
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	3598.7	0.0	3598.7
	% Fixture	91.6	0.0	91.6
Total	Lumens	3927.6	0.0	3927.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	62.2	1.6
10°-20°	152.2	3.9
20°-30°	244.0	6.2
30°-40°	368.4	9.4
40°-50°	560.7	14.3
50°-60°	789.4	20.1
60°-70°	964.3	24.6
70°-80°	700.2	17.8
80°-90°	86.2	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°	3927.6	100.0
0°-180°	3927.6	100.0

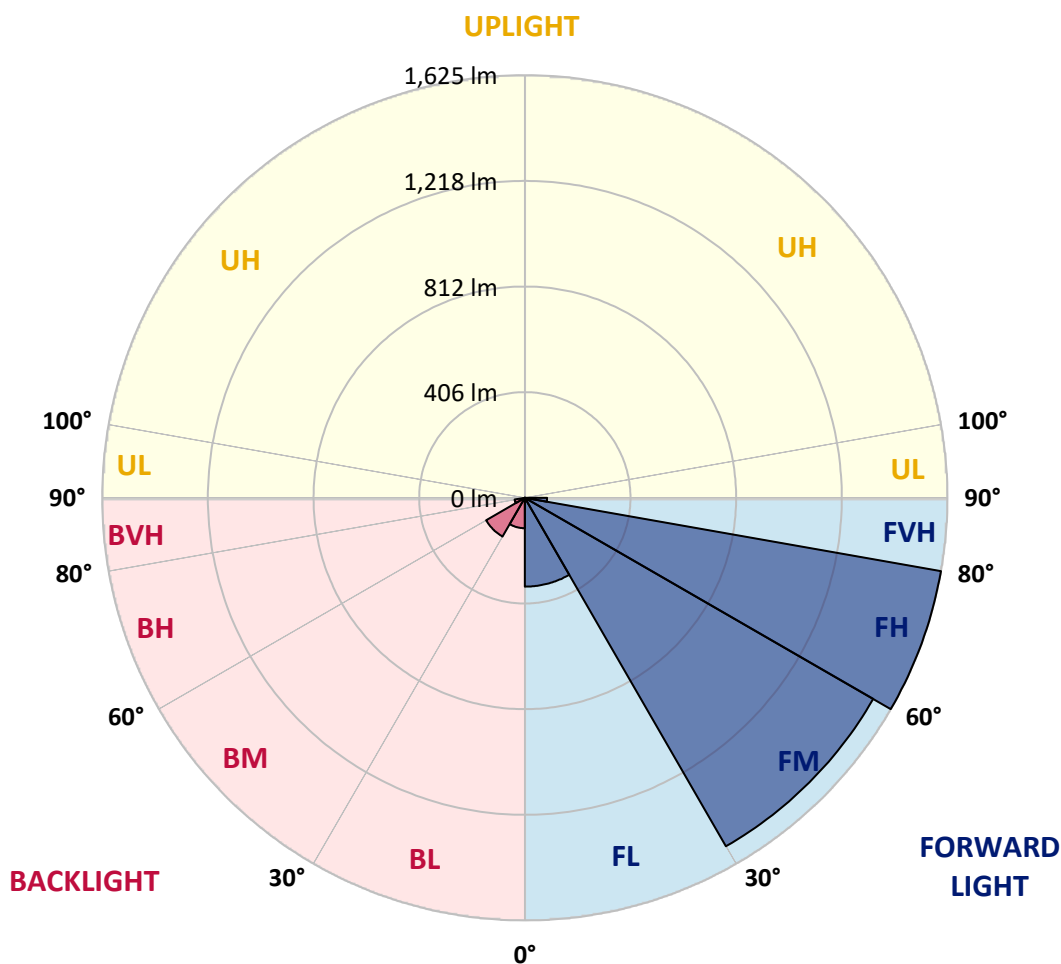


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	341.6	8.7			
FM (30°-60°)	1546.7	39.4			
FH (60°-80°)	1624.6	41.4			G1/1800
FVH (80°-90°)	85.8	2.2			G1/100
BL (0°-30°)	116.8	3.0	B1/500		
BM (30°-60°)	171.8	4.4	B0/220		
BH (60°-80°)	39.9	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°	710.3	710.3	710.3	710.3	710.3	710.3	710.3	710.3	710.3	710.3	710.3
2.5°	780.3	780.3	787.7	780.3	777.5	760.0	760.9	751.7	742.5	729.6	717.6
5°	789.5	795.9	800.6	794.1	784.0	785.8	792.3	774.8	749.9	734.2	707.5
7.5°	785.8	799.6	795.9	792.3	785.8	781.2	772.0	764.6	752.6	737.9	706.6
10°	783.0	787.7	788.6	785.8	772.0	784.9	774.8	762.8	748.0	730.5	691.8
12.5°	772.9	772.9	781.2	774.8	776.6	783.0	778.4	775.7	760.0	745.3	711.2
15°	761.9	765.5	778.4	788.6	797.8	795.0	792.3	784.0	770.2	753.6	717.6
17.5°	764.6	766.5	786.7	805.2	800.6	798.7	813.4	795.9	782.1	763.7	723.2
20°	774.8	780.3	803.3	827.3	831.9	831.9	826.3	816.2	796.9	772.0	733.3
22.5°	784.9	786.7	824.5	854.9	859.5	847.5	852.1	822.7	804.2	790.4	743.4
25°	823.6	819.9	860.4	884.4	881.6	869.6	865.0	839.2	831.9	807.0	765.5
27.5°	876.1	860.4	900.0	914.8	900.0	903.7	890.8	863.2	847.5	832.8	775.7
30°	908.3	917.5	938.7	953.5	928.6	929.5	923.1	892.7	868.7	872.4	809.8
32.5°	958.1	964.5	980.2	986.6	967.3	965.5	959.0	935.1	917.5	913.9	855.8
35°	1011.5	1023.5	1024.4	1026.3	1008.7	1016.1	1006.9	972.8	982.0	988.5	911.1
37.5°	1064.0	1053.0	1071.4	1079.7	1060.3	1060.3	1063.1	1040.1	1056.7	1076.0	989.4
40°	1084.3	1088.9	1121.1	1114.7	1137.7	1123.9	1134.0	1128.5	1142.3	1186.5	1100.0
42.5°	1105.5	1111.0	1154.3	1166.3	1193.9	1198.5	1213.3	1214.2	1254.7	1327.5	1205.9
45°	1146.0	1136.8	1195.8	1225.2	1270.4	1283.3	1300.8	1315.5	1379.1	1464.8	1326.6
47.5°	1182.9	1170.0	1237.2	1296.2	1351.4	1354.2	1402.1	1417.8	1493.3	1591.0	1446.3
50°	1234.5	1239.1	1267.6	1369.0	1425.1	1457.4	1490.6	1542.1	1626.0	1730.1	1532.9
52.5°	1287.9	1283.3	1331.2	1430.7	1519.1	1531.1	1605.7	1663.7	1754.9	1833.3	1571.6
55°	1353.3	1358.8	1377.2	1508.1	1620.4	1649.0	1732.8	1793.6	1893.1	1877.5	1584.5
57.5°	1418.7	1413.2	1454.6	1594.7	1747.6	1768.8	1880.2	1916.2	1983.4	1907.0	1552.3
60°	1483.2	1493.3	1510.8	1692.3	1886.7	1918.0	2006.4	2024.9	2039.6	1920.8	1527.4
62.5°	1556.9	1532.9	1587.3	1795.5	2012.0	2077.4	2147.4	2074.6	2061.7	1895.9	1470.3
65°	1593.7	1601.1	1672.0	1913.4	2178.7	2226.6	2235.8	2141.9	2075.5	1840.6	1416.9
67.5°	1650.8	1661.0	1751.3	2034.1	2350.1	2376.8	2343.6	2202.7	2063.6	1768.8	1224.3
70°	1658.2	1683.1	1857.2	2160.3	2457.8	2480.9	2455.1	2243.2	1966.8	1485.9	906.5
72.5°	1619.5	1663.7	1883.0	2232.1	2548.1	2606.2	2461.5	2100.4	1585.4	947.9	464.3
75°	1223.4	1260.2	1723.6	2125.3	2387.8	2401.7	2161.2	1602.9	902.8	323.4	118.8
77.5°	633.8	697.4	1150.6	1624.1	1819.4	1804.7	1504.4	944.3	310.5	84.8	47.9
80°	363.9	379.5	503.0	912.0	1144.2	1088.0	831.9	407.2	136.3	42.4	31.3
82.5°	179.6	201.7	270.8	408.1	572.1	470.7	312.3	244.1	76.5	23.0	27.6
85°	38.7	40.5	138.2	195.3	232.2	152.9	106.9	205.4	27.6	13.8	26.7
87.5°	27.6	26.7	38.7	87.5	64.5	39.6	63.6	107.8	6.4	6.4	5.5
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°	710.3	710.3	710.3	710.3	710.3	710.3	710.3	710.3	710.3	710.3	710.3
2.5°	710.3	702.0	692.8	675.3	670.7	667.9	652.2	651.3	648.5	642.1	639.3
5°	690.9	677.1	659.6	641.2	626.4	599.7	567.5	550.9	530.6	531.6	525.1
7.5°	688.2	662.4	637.5	598.8	551.8	502.1	452.3	420.1	397.1	383.2	386.0
10°	675.3	655.9	615.4	543.5	468.0	392.4	328.9	281.0	253.3	232.2	238.6
12.5°	680.8	643.0	585.9	490.1	382.3	289.3	210.0	164.0	143.7	136.3	138.2
15°	677.1	643.0	568.4	432.1	300.3	196.2	136.3	121.6	117.9	117.9	116.1
17.5°	688.2	650.4	538.9	374.9	215.6	130.8	117.0	114.2	111.5	111.5	111.5
20°	703.8	654.1	518.7	311.4	152.0	115.2	109.6	107.8	106.9	106.9	105.9
22.5°	704.7	650.4	480.9	241.4	117.0	108.7	104.1	103.2	103.2	101.3	101.3
25°	710.3	654.1	440.3	181.5	108.7	102.3	98.6	97.7	98.6	97.7	96.7
27.5°	724.1	660.5	399.8	132.7	102.3	96.7	94.0	93.0	93.0	93.0	91.2
30°	741.6	660.5	354.7	109.6	96.7	91.2	88.4	87.5	86.6	86.6	86.6
32.5°	778.4	681.7	299.4	97.7	89.4	84.8	82.0	82.0	81.1	81.1	80.1
35°	824.5	696.5	243.2	90.3	82.9	78.3	75.5	75.5	74.6	74.6	73.7
37.5°	881.6	733.3	186.1	84.8	76.5	71.9	69.1	69.1	69.1	68.2	68.2
40°	962.7	771.1	138.2	77.4	70.0	65.4	63.6	62.6	61.7	61.7	59.9
42.5°	1049.3	829.1	103.2	71.9	64.5	60.8	58.0	55.3	55.3	52.5	52.5
45°	1143.2	879.8	83.8	65.4	59.0	54.4	51.6	49.7	47.0	45.1	45.1
47.5°	1235.4	911.1	73.7	58.0	53.4	49.7	47.0	43.3	39.6	38.7	37.8
50°	1310.0	920.3	65.4	52.5	48.8	45.1	41.5	36.8	33.2	31.3	30.4
52.5°	1310.0	869.6	59.0	47.0	44.2	40.5	35.9	30.4	25.8	24.0	23.0
55°	1310.0	789.5	52.5	43.3	39.6	36.8	30.4	24.9	20.3	17.5	16.6
57.5°	1290.6	692.8	47.0	38.7	35.0	31.3	25.8	19.3	14.7	12.0	12.0
60°	1237.2	591.4	40.5	34.1	30.4	25.8	20.3	13.8	9.2	6.4	6.4
62.5°	1169.0	470.7	35.0	28.6	24.9	21.2	15.7	9.2	3.7	1.8	1.8
65°	1050.2	347.3	30.4	24.0	19.3	15.7	10.1	3.7	0.0	0.0	0.0
67.5°	866.9	232.2	24.0	19.3	16.6	11.1	6.4	0.9	0.0	0.0	0.0
70°	609.9	131.7	18.4	13.8	12.0	7.4	1.8	0.0	0.0	0.0	0.0
72.5°	250.6	58.0	12.9	10.1	8.3	3.7	0.0	0.0	0.0	0.0	0.0
75°	68.2	25.8	8.3	5.5	4.6	0.9	0.0	0.0	0.0	0.0	0.0
77.5°	39.6	17.5	3.7	1.8	1.8	0.0	0.0	0.0	0.0	0.0	0.0
80°	31.3	8.3	1.8	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	31.3	4.6	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	26.7	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	3.7	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)