

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: P677140

Luminaire Tested: **CCW-SA-1C-740-U-SL4-HSS**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P677140
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-1C-740-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) 4000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

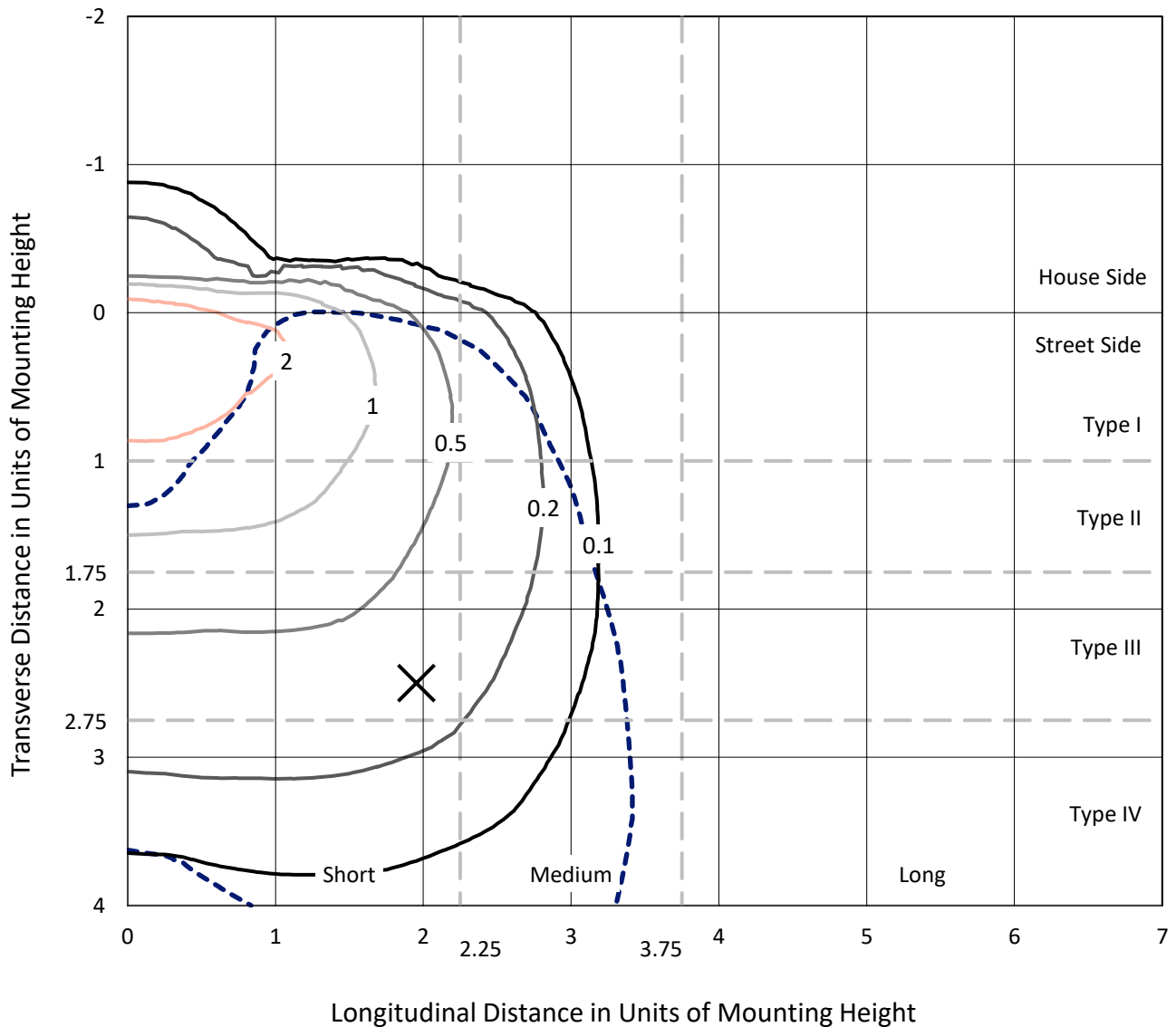
Lumens per Lamp: N/A
Luminaire Lumens: 3734.7 lumens
Efficiency: N/A
Efficacy: 116.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G1

Input Watts (W): 32
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

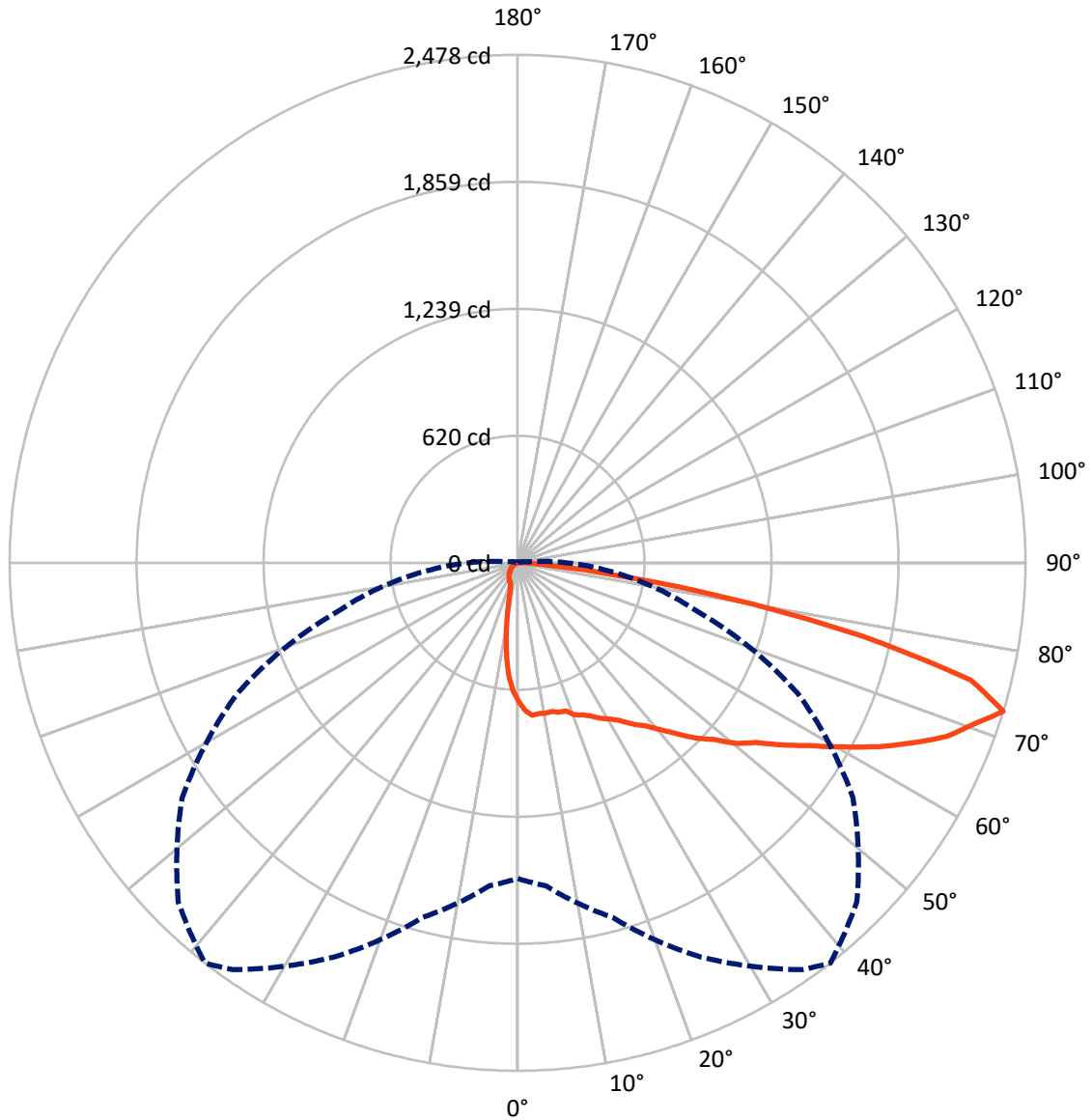
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 3.2 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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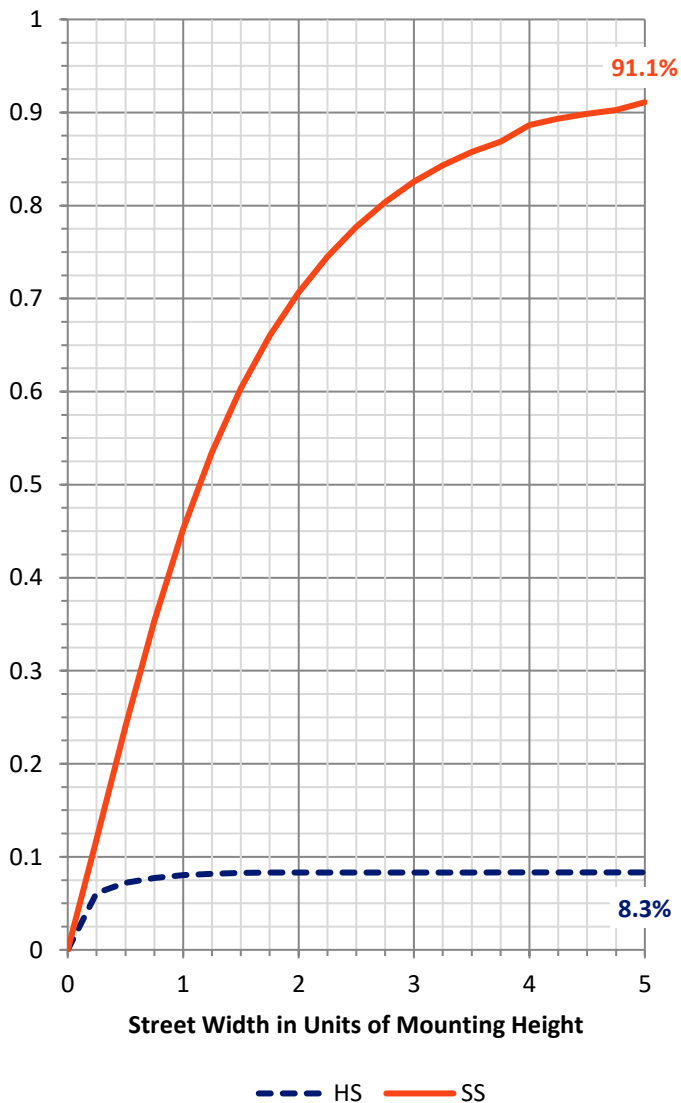
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	312.8	0.0	312.8
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	3421.9	0.0	3421.9
	% Fixture	91.6	0.0	91.6
Total	Lumens	3734.7	0.0	3734.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	59.1	1.6
10°-20°	144.7	3.9
20°-30°	232.0	6.2
30°-40°	350.3	9.4
40°-50°	533.2	14.3
50°-60°	750.6	20.1
60°-70°	916.9	24.6
70°-80°	665.8	17.8
80°-90°	82.0	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°	3734.7	100.0
0°-180°	3734.7	100.0

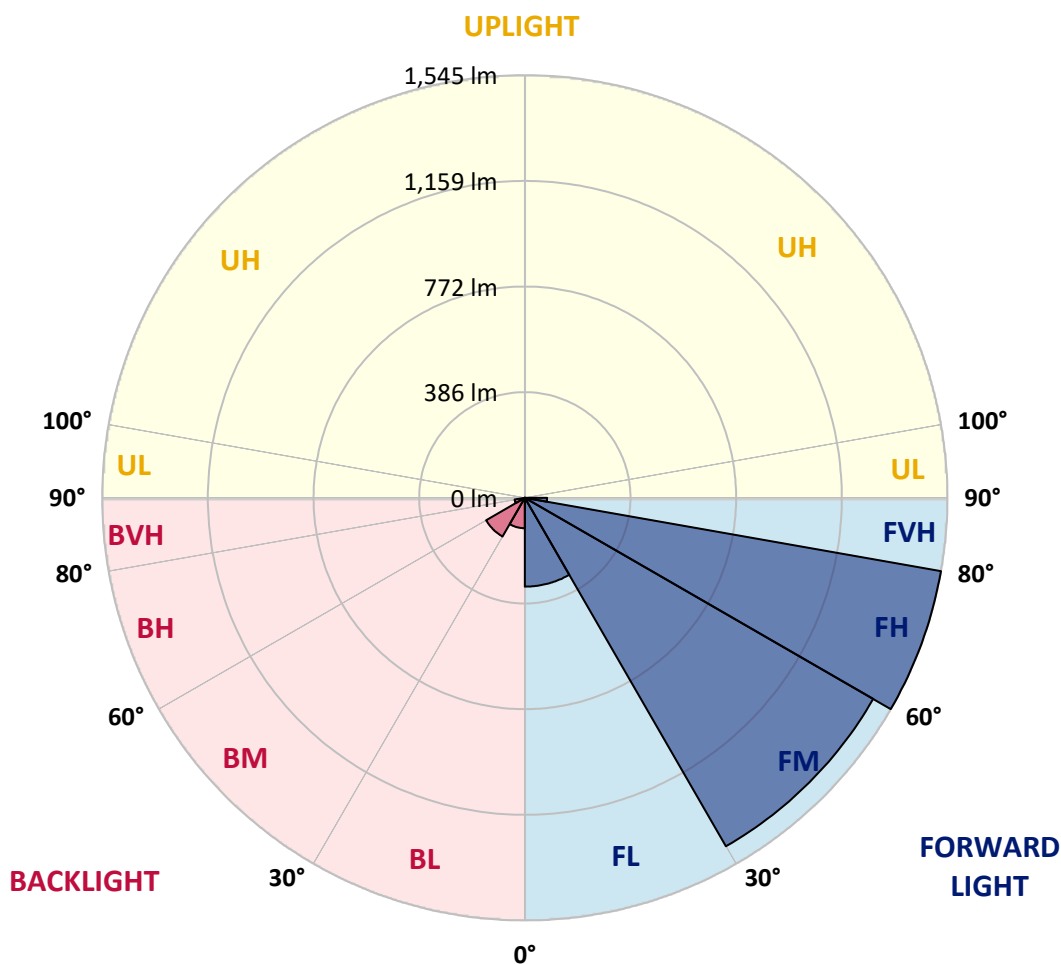


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	324.8	8.7			
FM (30°-60°)	1470.7	39.4			
FH (60°-80°)	1544.8	41.4			G1/1800
FVH (80°-90°)	81.6	2.2			G1/100
BL (0°-30°)	111.0	3.0	B1/500		
BM (30°-60°)	163.4	4.4	B0/220		
BH (60°-80°)	37.9	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°	675.4	675.4	675.4	675.4	675.4	675.4	675.4	675.4	675.4	675.4	675.4
2.5°	742.0	742.0	749.0	742.0	739.3	722.7	723.6	714.8	706.0	693.8	682.4
5°	750.7	756.8	761.2	755.1	745.5	747.2	753.3	736.7	713.0	698.2	672.7
7.5°	747.2	760.3	756.8	753.3	747.2	742.8	734.1	727.1	715.7	701.7	671.9
10°	744.6	749.0	749.8	747.2	734.1	746.3	736.7	725.3	711.3	694.6	657.9
12.5°	734.9	734.9	742.8	736.7	738.4	744.6	740.2	737.6	722.7	708.7	676.3
15°	724.4	727.9	740.2	749.8	758.6	756.0	753.3	745.5	732.3	716.5	682.4
17.5°	727.1	728.8	748.1	765.6	761.2	759.5	773.5	756.8	743.7	726.2	687.6
20°	736.7	742.0	763.8	786.6	791.0	791.0	785.7	776.1	757.7	734.1	697.3
22.5°	746.3	748.1	784.0	812.9	817.3	805.9	810.3	782.2	764.7	751.6	706.9
25°	783.1	779.6	818.2	840.9	838.3	826.9	822.5	798.0	791.0	767.4	727.9
27.5°	833.1	818.2	855.8	869.8	855.8	859.3	847.1	820.8	805.9	791.9	737.6
30°	863.7	872.5	892.6	906.6	883.0	883.9	877.7	848.8	826.0	829.5	770.0
32.5°	911.0	917.1	932.0	938.2	919.8	918.0	911.9	889.1	872.5	869.0	813.8
35°	961.8	973.2	974.1	975.8	959.2	966.2	957.4	925.0	933.8	939.9	866.3
37.5°	1011.8	1001.2	1018.8	1026.6	1008.2	1008.2	1010.9	989.0	1004.7	1023.1	940.8
40°	1031.0	1035.4	1066.1	1059.9	1081.8	1068.7	1078.3	1073.1	1086.2	1128.3	1045.9
42.5°	1051.2	1056.4	1097.6	1109.0	1135.3	1139.6	1153.7	1154.5	1193.1	1262.3	1146.7
45°	1089.7	1081.0	1137.0	1165.0	1208.0	1220.2	1236.9	1250.9	1311.3	1392.8	1261.4
47.5°	1124.8	1112.5	1176.4	1232.5	1285.1	1287.7	1333.2	1348.1	1420.0	1512.8	1375.3
50°	1173.8	1178.2	1205.3	1301.7	1355.1	1385.8	1417.3	1466.4	1546.1	1645.1	1457.6
52.5°	1224.6	1220.2	1265.8	1360.4	1444.5	1455.9	1526.8	1582.0	1668.7	1743.2	1494.4
55°	1286.8	1292.1	1309.6	1434.0	1540.8	1568.0	1647.7	1705.5	1800.1	1785.2	1506.7
57.5°	1349.0	1343.7	1383.2	1516.3	1661.7	1681.9	1787.9	1822.0	1886.0	1813.3	1476.0
60°	1410.3	1420.0	1436.6	1609.2	1794.0	1823.8	1907.9	1925.4	1939.4	1826.4	1452.4
62.5°	1480.4	1457.6	1509.3	1707.3	1913.1	1975.3	2041.9	1972.7	1960.4	1802.8	1398.1
65°	1515.4	1522.4	1589.9	1819.4	2071.7	2117.2	2126.0	2036.6	1973.6	1750.2	1347.2
67.5°	1569.7	1579.4	1665.2	1934.2	2234.6	2260.0	2228.5	2094.5	1962.2	1681.9	1164.2
70°	1576.8	1600.4	1766.0	2054.2	2337.1	2359.0	2334.5	2133.0	1870.2	1412.9	862.0
72.5°	1540.0	1582.0	1790.5	2122.5	2422.9	2478.1	2340.6	1997.2	1507.6	901.4	441.5
75°	1163.3	1198.3	1638.9	2020.9	2270.5	2283.7	2055.0	1524.2	858.5	307.5	113.0
77.5°	602.7	663.1	1094.1	1544.3	1730.0	1716.0	1430.5	897.9	295.2	80.6	45.6
80°	346.0	360.9	478.3	867.2	1088.0	1034.5	791.0	387.2	129.6	40.3	29.8
82.5°	170.8	191.8	257.5	388.1	544.0	447.6	297.0	232.1	72.7	21.9	26.3
85°	36.8	38.5	131.4	185.7	220.7	145.4	101.6	195.3	26.3	13.1	25.4
87.5°	26.3	25.4	36.8	83.2	61.3	37.7	60.4	102.5	6.1	6.1	5.3
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°	675.4	675.4	675.4	675.4	675.4	675.4	675.4	675.4	675.4	675.4	675.4
2.5°	675.4	667.5	658.7	642.1	637.7	635.1	620.2	619.3	616.7	610.6	607.9
5°	657.0	643.8	627.2	609.7	595.7	570.3	539.6	523.8	504.6	505.4	499.3
7.5°	654.4	629.8	606.2	569.4	524.7	477.4	430.1	399.4	377.5	364.4	367.0
10°	642.1	623.7	585.2	516.8	445.0	373.2	312.7	267.2	240.9	220.7	226.9
12.5°	647.3	611.4	557.1	466.0	363.5	275.1	199.7	155.9	136.7	129.6	131.4
15°	643.8	611.4	540.5	410.8	285.6	186.6	129.6	115.6	112.1	112.1	110.4
17.5°	654.4	618.4	512.4	356.5	205.0	124.4	111.2	108.6	106.0	106.0	106.0
20°	669.2	621.9	493.2	296.1	144.5	109.5	104.2	102.5	101.6	101.6	100.7
22.5°	670.1	618.4	457.3	229.5	111.2	103.4	99.0	98.1	98.1	96.4	96.4
25°	675.4	621.9	418.7	172.6	103.4	97.2	93.7	92.9	93.7	92.9	92.0
27.5°	688.5	628.1	380.2	126.1	97.2	92.0	89.3	88.5	88.5	88.5	86.7
30°	705.2	628.1	337.3	104.2	92.0	86.7	84.1	83.2	82.3	82.3	82.3
32.5°	740.2	648.2	284.7	92.9	85.0	80.6	78.0	78.0	77.1	77.1	76.2
35°	784.0	662.2	231.3	85.8	78.8	74.5	71.8	71.8	71.0	71.0	70.1
37.5°	838.3	697.3	176.9	80.6	72.7	68.3	65.7	65.7	65.7	64.8	64.8
40°	915.4	733.2	131.4	73.6	66.6	62.2	60.4	59.6	58.7	58.7	56.9
42.5°	997.7	788.4	98.1	68.3	61.3	57.8	55.2	52.6	52.6	49.9	49.9
45°	1087.1	836.6	79.7	62.2	56.1	51.7	49.1	47.3	44.7	42.9	42.9
47.5°	1174.7	866.3	70.1	55.2	50.8	47.3	44.7	41.2	37.7	36.8	35.9
50°	1245.6	875.1	62.2	49.9	46.4	42.9	39.4	35.0	31.5	29.8	28.9
52.5°	1245.6	826.9	56.1	44.7	42.0	38.5	34.2	28.9	24.5	22.8	21.9
55°	1245.6	750.7	49.9	41.2	37.7	35.0	28.9	23.7	19.3	16.6	15.8
57.5°	1227.2	658.7	44.7	36.8	33.3	29.8	24.5	18.4	14.0	11.4	11.4
60°	1176.4	562.4	38.5	32.4	28.9	24.5	19.3	13.1	8.8	6.1	6.1
62.5°	1111.6	447.6	33.3	27.2	23.7	20.1	14.9	8.8	3.5	1.8	1.8
65°	998.6	330.2	28.9	22.8	18.4	14.9	9.6	3.5	0.0	0.0	0.0
67.5°	824.3	220.7	22.8	18.4	15.8	10.5	6.1	0.9	0.0	0.0	0.0
70°	579.9	125.3	17.5	13.1	11.4	7.0	1.8	0.0	0.0	0.0	0.0
72.5°	238.3	55.2	12.3	9.6	7.9	3.5	0.0	0.0	0.0	0.0	0.0
75°	64.8	24.5	7.9	5.3	4.4	0.9	0.0	0.0	0.0	0.0	0.0
77.5°	37.7	16.6	3.5	1.8	1.8	0.0	0.0	0.0	0.0	0.0	0.0
80°	29.8	7.9	1.8	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	29.8	4.4	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	25.4	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	3.5	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)