

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: P677166

Luminaire Tested: **CCW-SA-2A-760-U-SL4-HSS**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P677166
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-2A-760-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) 5700K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

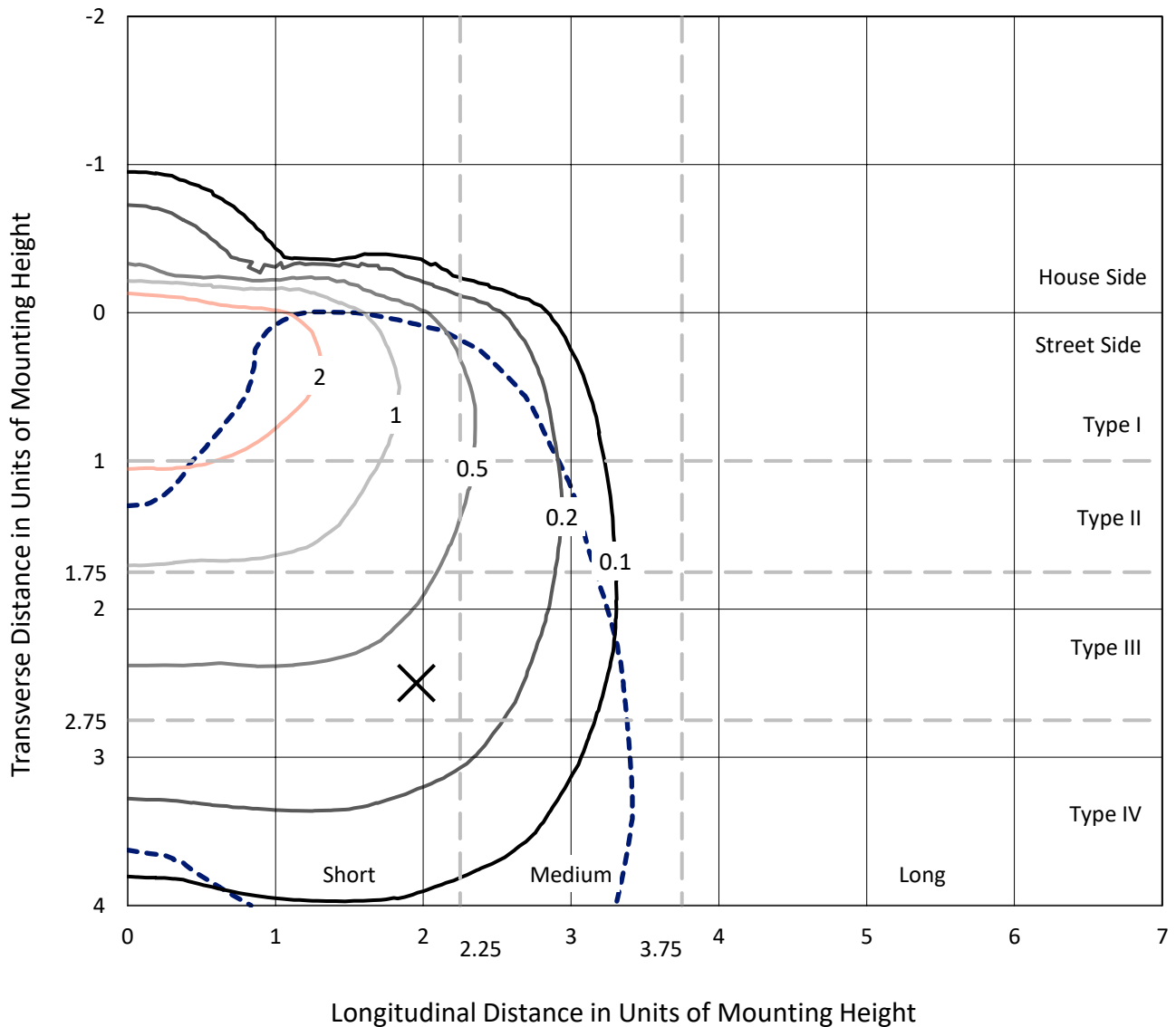
Lumens per Lamp: N/A
Luminaire Lumens: 4623.2 lumens
Efficiency: N/A
Efficacy: 127.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 36.2
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

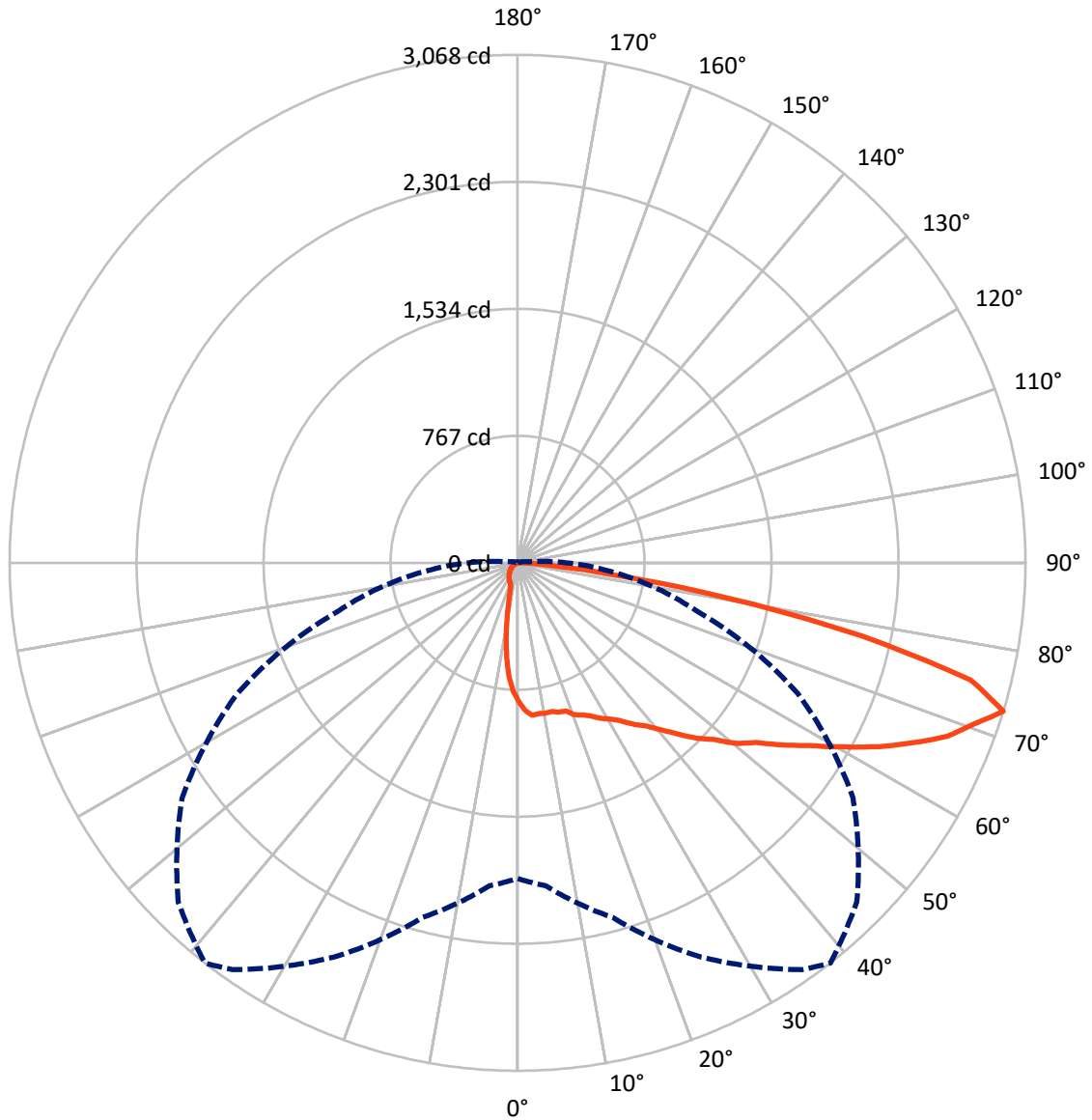
× Max cd
 - - - 1/2 Max cd



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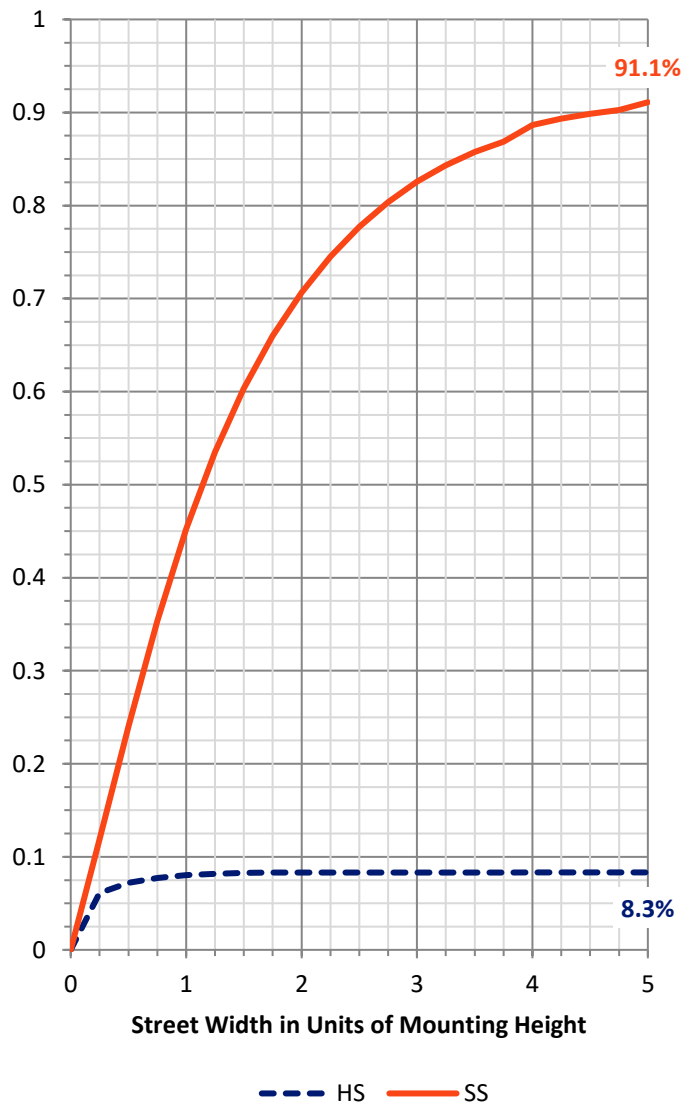
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	387.2	0.0	387.2
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	4236.0	0.0	4236.0
	% Fixture	91.6	0.0	91.6
Total	Lumens	4623.2	0.0	4623.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	73.2	1.6
10°-20°	179.2	3.9
20°-30°	287.2	6.2
30°-40°	433.7	9.4
40°-50°	660.0	14.3
50°-60°	929.2	20.1
60°-70°	1135.0	24.6
70°-80°	824.2	17.8
80°-90°	101.5	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°	4623.2	100.0
0°-180°	4623.2	100.0

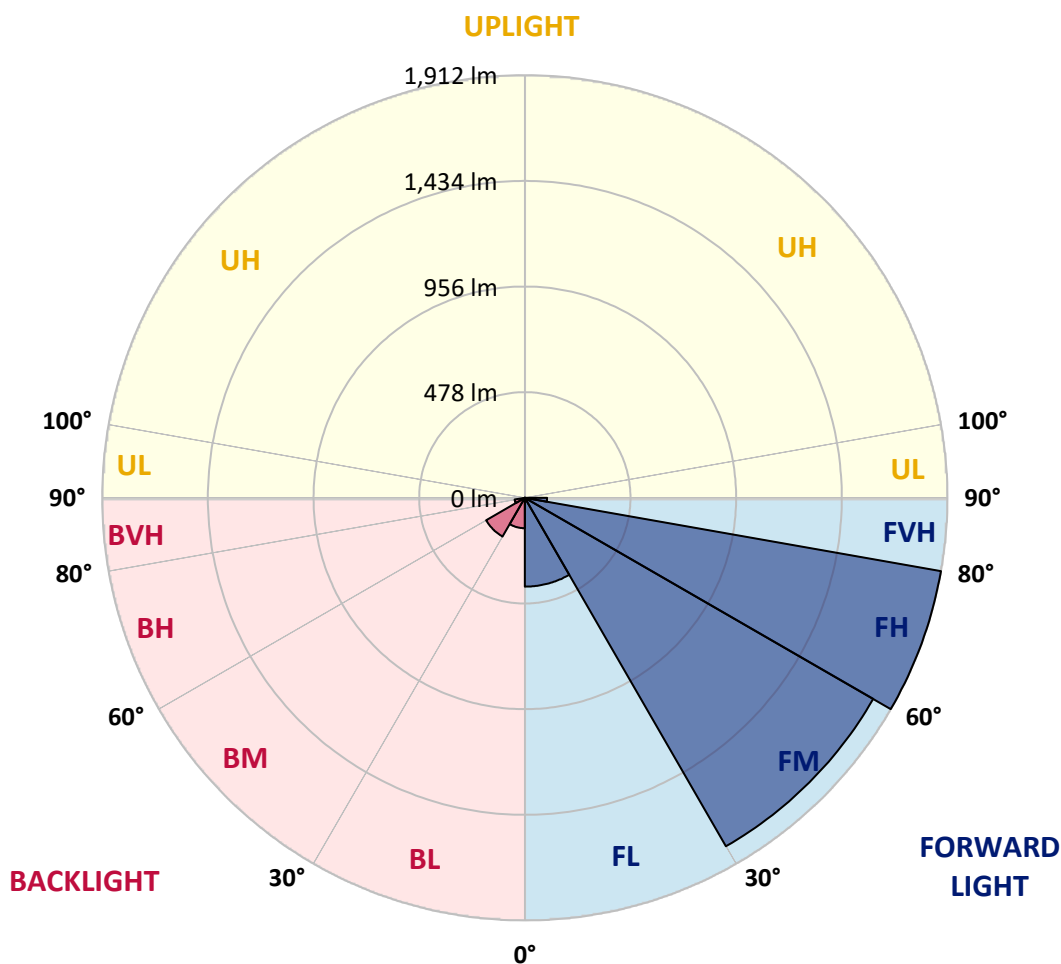


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	402.1	8.7			
FM (30°-60°)	1820.6	39.4			
FH (60°-80°)	1912.3	41.4			G2/5000
FVH (80°-90°)	101.0	2.2			G2/225
BL (0°-30°)	137.5	3.0	B1/500		
BM (30°-60°)	202.3	4.4	B0/220		
BH (60°-80°)	47.0	1.0	B0/110		G0/110
BVH (80°-90°)	0.5	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-G2
 Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	836.1	836.1	836.1	836.1	836.1	836.1	836.1	836.1	836.1	836.1	836.1
2.5°	918.5	918.5	927.1	918.5	915.2	894.6	895.7	884.9	874.0	858.8	844.7
5°	929.3	936.9	942.3	934.7	922.8	925.0	932.6	912.0	882.7	864.3	832.8
7.5°	925.0	941.2	936.9	932.6	925.0	919.6	908.7	900.0	885.9	868.6	831.7
10°	921.7	927.1	928.2	925.0	908.7	923.9	912.0	897.9	880.5	859.9	814.4
12.5°	909.8	909.8	919.6	912.0	914.1	921.7	916.3	913.0	894.6	877.3	837.1
15°	896.8	901.1	916.3	928.2	939.1	935.8	932.6	922.8	906.5	887.0	844.7
17.5°	900.0	902.2	926.1	947.7	942.3	940.2	957.5	936.9	920.6	899.0	851.2
20°	912.0	918.5	945.6	973.8	979.2	979.2	972.7	960.8	938.0	908.7	863.2
22.5°	923.9	926.1	970.5	1006.3	1011.7	997.6	1003.1	968.4	946.7	930.4	875.1
25°	969.4	965.1	1012.8	1041.0	1037.8	1023.7	1018.2	987.9	979.2	949.9	901.1
27.5°	1031.2	1012.8	1059.4	1076.8	1059.4	1063.8	1048.6	1016.1	997.6	980.3	913.0
30°	1069.2	1080.0	1105.0	1122.3	1093.1	1094.1	1086.5	1050.8	1022.6	1026.9	953.2
32.5°	1127.8	1135.3	1153.8	1161.4	1138.6	1136.4	1128.8	1100.6	1080.0	1075.7	1007.4
35°	1190.6	1204.7	1205.8	1208.0	1187.4	1196.1	1185.2	1145.1	1155.9	1163.5	1072.5
37.5°	1252.5	1239.4	1261.1	1270.9	1248.1	1248.1	1251.4	1224.3	1243.8	1266.6	1164.6
40°	1276.3	1281.7	1319.7	1312.1	1339.2	1322.9	1334.9	1328.4	1344.6	1396.7	1294.8
42.5°	1301.3	1307.8	1358.7	1372.8	1405.4	1410.8	1428.1	1429.2	1476.9	1562.6	1419.5
45°	1349.0	1338.1	1407.5	1442.2	1495.4	1510.5	1531.1	1548.5	1623.3	1724.2	1561.5
47.5°	1392.3	1377.2	1456.3	1525.7	1590.8	1594.0	1650.4	1668.9	1757.8	1872.7	1702.5
50°	1453.1	1458.5	1492.1	1611.4	1677.5	1715.5	1754.5	1815.3	1913.9	2036.5	1804.4
52.5°	1516.0	1510.5	1566.9	1684.0	1788.1	1802.2	1890.1	1958.4	2065.7	2157.9	1850.0
55°	1593.0	1599.5	1621.1	1775.1	1907.4	1941.0	2039.7	2111.3	2228.4	2210.0	1865.1
57.5°	1669.9	1663.4	1712.2	1877.1	2057.1	2082.0	2213.2	2255.5	2334.7	2244.7	1827.2
60°	1745.9	1757.8	1778.4	1992.0	2220.8	2257.7	2361.8	2383.5	2400.8	2260.9	1797.9
62.5°	1832.6	1804.4	1868.4	2113.5	2368.3	2445.3	2527.7	2442.0	2426.8	2231.7	1730.7
65°	1876.0	1884.7	1968.2	2252.3	2564.6	2620.9	2631.8	2521.2	2443.1	2166.6	1667.8
67.5°	1943.2	1955.1	2061.4	2394.3	2766.3	2797.7	2758.7	2592.8	2429.0	2082.0	1441.1
70°	1951.9	1981.2	2186.1	2542.9	2893.1	2920.2	2889.9	2640.5	2315.2	1749.1	1067.0
72.5°	1906.3	1958.4	2216.5	2627.5	2999.4	3067.7	2897.5	2472.4	1866.2	1115.8	546.5
75°	1440.1	1483.4	2028.9	2501.7	2810.7	2827.0	2544.0	1886.8	1062.7	380.6	139.9
77.5°	746.1	820.9	1354.4	1911.8	2141.7	2124.3	1770.8	1111.5	365.4	99.8	56.4
80°	428.3	446.8	592.1	1073.5	1346.8	1280.7	979.2	479.3	160.5	49.9	36.9
82.5°	211.5	237.5	318.8	480.4	673.4	554.1	367.6	287.4	90.0	27.1	32.5
85°	45.5	47.7	162.7	229.9	273.3	180.0	125.8	241.8	32.5	16.3	31.4
87.5°	32.5	31.4	45.5	103.0	75.9	46.6	74.8	126.9	7.6	7.6	6.5
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°	836.1	836.1	836.1	836.1	836.1	836.1	836.1	836.1	836.1	836.1	836.1
2.5°	836.1	826.3	815.5	794.9	789.4	786.2	767.7	766.7	763.4	755.8	752.6
5°	813.3	797.0	776.4	754.7	737.4	705.9	668.0	648.5	624.6	625.7	618.1
7.5°	810.0	779.7	750.4	704.8	649.5	591.0	532.4	494.5	467.4	451.1	454.4
10°	794.9	772.1	724.4	639.8	550.9	461.9	387.1	330.7	298.2	273.3	280.9
12.5°	801.4	756.9	689.7	576.9	450.0	340.5	247.2	193.0	169.2	160.5	162.7
15°	797.0	756.9	669.1	508.6	353.5	231.0	160.5	143.1	138.8	138.8	136.6
17.5°	810.0	765.6	634.4	441.3	253.7	154.0	137.7	134.5	131.2	131.2	131.2
20°	828.5	769.9	610.5	366.5	178.9	135.5	129.0	126.9	125.8	125.8	124.7
22.5°	829.6	765.6	566.0	284.1	137.7	128.0	122.5	121.5	121.5	119.3	119.3
25°	836.1	769.9	518.3	213.6	128.0	120.4	116.0	114.9	116.0	114.9	113.9
27.5°	852.3	777.5	470.6	156.2	120.4	113.9	110.6	109.5	109.5	109.5	107.4
30°	872.9	777.5	417.5	129.0	113.9	107.4	104.1	103.0	101.9	101.9	101.9
32.5°	916.3	802.4	352.4	114.9	105.2	99.8	96.5	96.5	95.4	95.4	94.3
35°	970.5	819.8	286.3	106.3	97.6	92.2	88.9	88.9	87.8	87.8	86.8
37.5°	1037.8	863.2	219.0	99.8	90.0	84.6	81.3	81.3	81.3	80.2	80.2
40°	1133.2	907.6	162.7	91.1	82.4	77.0	74.8	73.7	72.7	72.7	70.5
42.5°	1235.1	975.9	121.5	84.6	75.9	71.6	68.3	65.1	65.1	61.8	61.8
45°	1345.7	1035.6	98.7	77.0	69.4	64.0	60.7	58.6	55.3	53.1	53.1
47.5°	1454.2	1072.5	86.8	68.3	62.9	58.6	55.3	51.0	46.6	45.5	44.5
50°	1542.0	1083.3	77.0	61.8	57.5	53.1	48.8	43.4	39.0	36.9	35.8
52.5°	1542.0	1023.7	69.4	55.3	52.1	47.7	42.3	35.8	30.4	28.2	27.1
55°	1542.0	929.3	61.8	51.0	46.6	43.4	35.8	29.3	23.9	20.6	19.5
57.5°	1519.2	815.5	55.3	45.5	41.2	36.9	30.4	22.8	17.4	14.1	14.1
60°	1456.3	696.2	47.7	40.1	35.8	30.4	23.9	16.3	10.8	7.6	7.6
62.5°	1376.1	554.1	41.2	33.6	29.3	24.9	18.4	10.8	4.3	2.2	2.2
65°	1236.2	408.8	35.8	28.2	22.8	18.4	11.9	4.3	0.0	0.0	0.0
67.5°	1020.4	273.3	28.2	22.8	19.5	13.0	7.6	1.1	0.0	0.0	0.0
70°	717.9	155.1	21.7	16.3	14.1	8.7	2.2	0.0	0.0	0.0	0.0
72.5°	295.0	68.3	15.2	11.9	9.8	4.3	0.0	0.0	0.0	0.0	0.0
75°	80.2	30.4	9.8	6.5	5.4	1.1	0.0	0.0	0.0	0.0	0.0
77.5°	46.6	20.6	4.3	2.2	2.2	0.0	0.0	0.0	0.0	0.0	0.0
80°	36.9	9.8	2.2	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	36.9	5.4	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	31.4	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	4.3	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)