

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: P677109

Luminaire Tested: **CCW-SA-1E-727-U-SL4-HSS**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P677109
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-1E-727-U-SL4-HSS
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @1050mA w/
SL4 distribution lens and House Side Shield
Light Source: (16) 2700K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

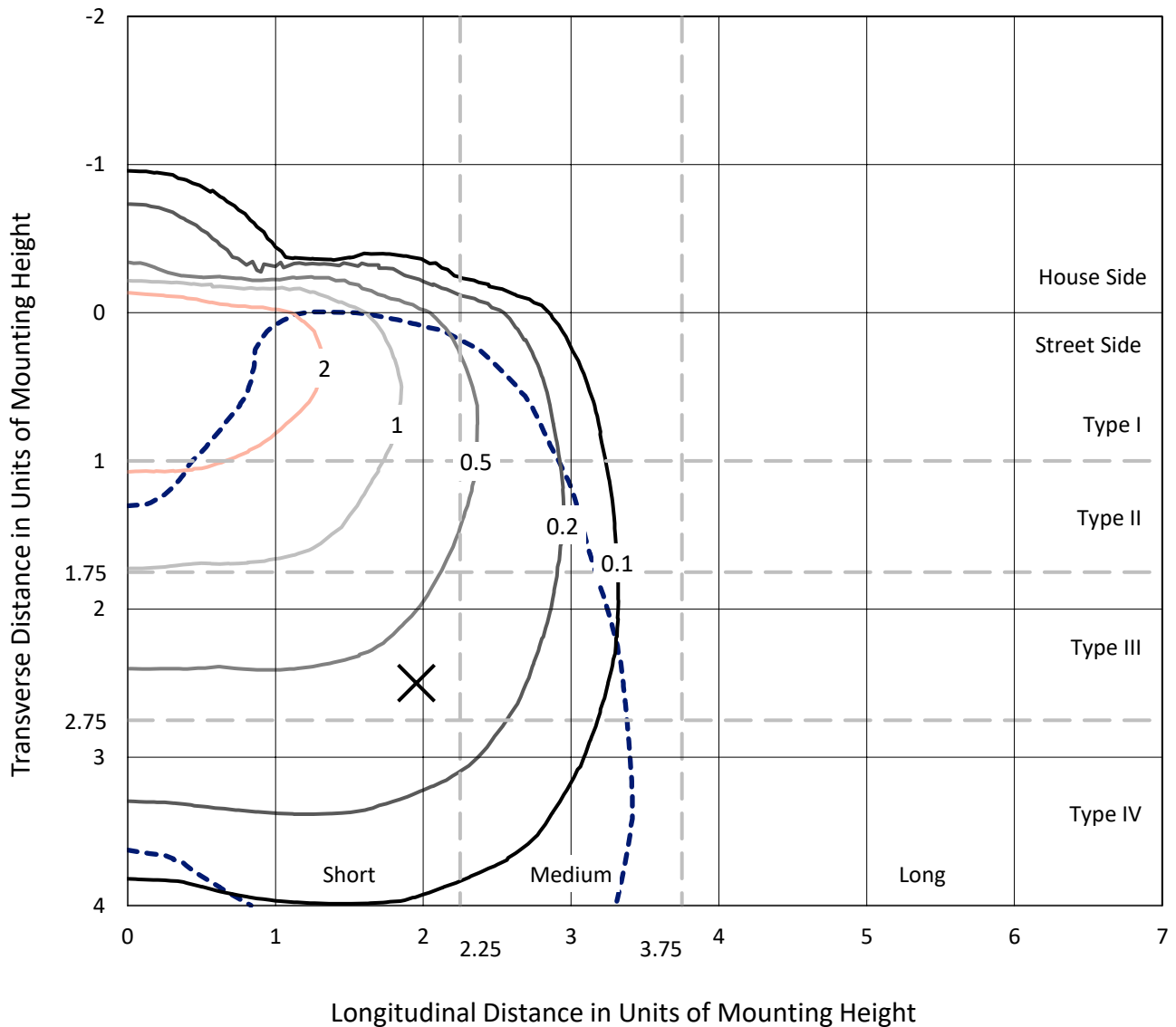
Lumens per Lamp: N/A
Luminaire Lumens: 4723.1 lumens
Efficiency: N/A
Efficacy: 84.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 56.1
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

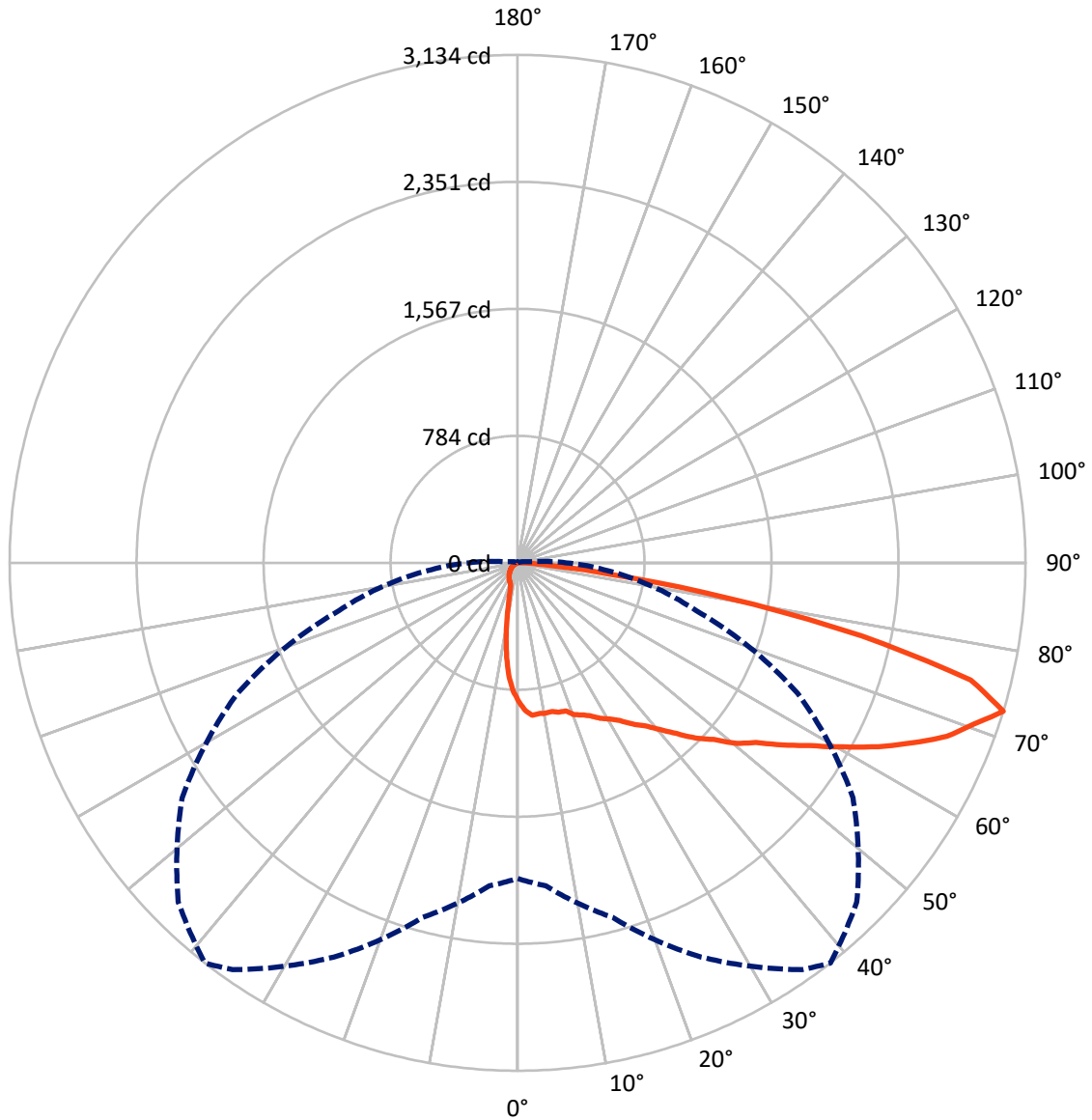
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 4.1 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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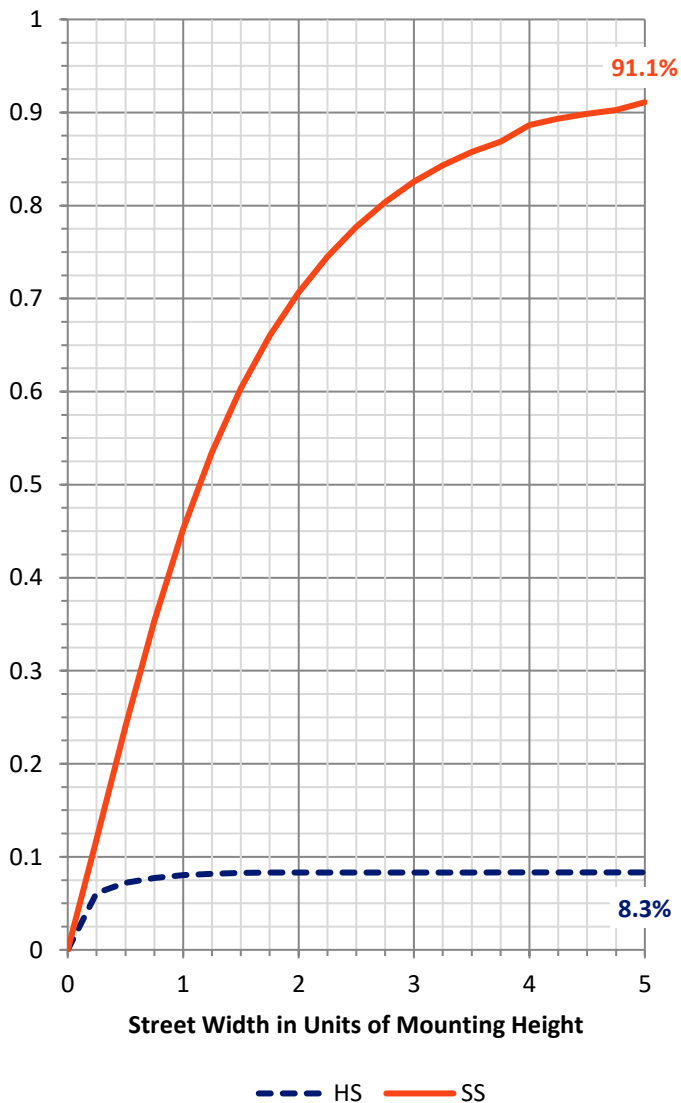
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	395.6	0.0	395.6
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	4327.5	0.0	4327.5
	% Fixture	91.6	0.0	91.6
Total	Lumens	4723.1	0.0	4723.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	74.8	1.6
10°-20°	183.0	3.9
20°-30°	293.4	6.2
30°-40°	443.0	9.4
40°-50°	674.3	14.3
50°-60°	949.3	20.1
60°-70°	1159.6	24.6
70°-80°	842.0	17.8
80°-90°	103.7	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°	4723.1	100.0
0°-180°	4723.1	100.0

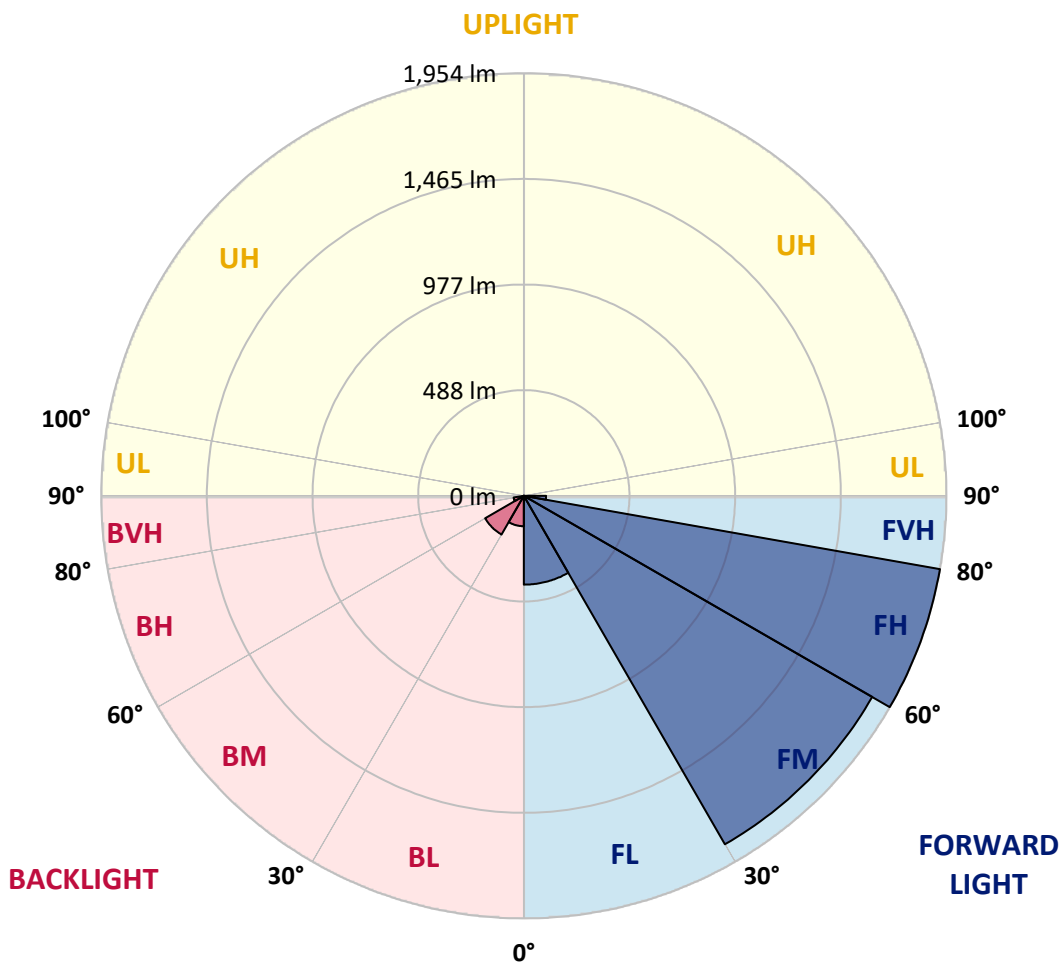


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	410.8	8.7			
FM (30°-60°)	1859.9	39.4			
FH (60°-80°)	1953.6	41.4			G2/5000
FVH (80°-90°)	103.2	2.2			G2/225
BL (0°-30°)	140.4	3.0	B1/500		
BM (30°-60°)	206.6	4.4	B0/220		
BH (60°-80°)	48.0	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°	854.1	854.1	854.1	854.1	854.1	854.1	854.1	854.1	854.1	854.1	854.1
2.5°	938.3	938.3	947.2	938.3	935.0	913.9	915.0	904.0	892.9	877.4	863.0
5°	949.4	957.1	962.7	954.9	942.7	945.0	952.7	931.7	901.7	882.9	850.8
7.5°	945.0	961.6	957.1	952.7	945.0	939.4	928.3	919.5	905.1	887.3	849.7
10°	941.6	947.2	948.3	945.0	928.3	943.8	931.7	917.3	899.5	878.5	832.0
12.5°	929.4	929.4	939.4	931.7	933.9	941.6	936.1	932.8	913.9	896.2	855.2
15°	916.2	920.6	936.1	948.3	959.4	956.0	952.7	942.7	926.1	906.2	863.0
17.5°	919.5	921.7	946.1	968.2	962.7	960.5	978.2	957.1	940.5	918.4	869.6
20°	931.7	938.3	966.0	994.8	1000.3	1000.3	993.7	981.5	958.2	928.3	881.8
22.5°	943.8	946.1	991.5	1028.0	1033.6	1019.2	1024.7	989.3	967.1	950.5	894.0
25°	990.4	985.9	1034.7	1063.5	1060.2	1045.8	1040.2	1009.2	1000.3	970.4	920.6
27.5°	1053.5	1034.7	1082.3	1100.0	1082.3	1086.8	1071.2	1038.0	1019.2	1001.5	932.8
30°	1092.3	1103.4	1128.8	1146.6	1116.7	1117.8	1110.0	1073.5	1044.7	1049.1	973.8
32.5°	1152.1	1159.9	1178.7	1186.5	1163.2	1161.0	1153.2	1124.4	1103.4	1098.9	1029.1
35°	1216.4	1230.8	1231.9	1234.1	1213.0	1221.9	1210.8	1169.8	1180.9	1188.7	1095.6
37.5°	1279.5	1266.2	1288.4	1298.3	1275.1	1275.1	1278.4	1250.7	1270.6	1293.9	1189.8
40°	1303.9	1309.4	1348.2	1340.4	1368.1	1351.5	1363.7	1357.1	1373.7	1426.8	1322.7
42.5°	1329.4	1336.0	1388.1	1402.5	1435.7	1441.2	1459.0	1460.1	1508.8	1596.3	1450.1
45°	1378.1	1367.0	1437.9	1473.4	1527.7	1543.2	1564.2	1581.9	1658.4	1761.4	1595.2
47.5°	1422.4	1406.9	1487.8	1558.7	1625.1	1628.5	1686.1	1704.9	1795.7	1913.2	1739.2
50°	1484.5	1490.0	1524.3	1646.2	1713.8	1752.5	1792.4	1854.5	1955.3	2080.4	1843.4
52.5°	1548.7	1543.2	1600.8	1720.4	1826.8	1841.2	1930.9	2000.7	2110.4	2204.5	1889.9
55°	1627.4	1634.0	1656.2	1813.5	1948.6	1983.0	2083.8	2156.9	2276.5	2257.7	1905.4
57.5°	1706.0	1699.4	1749.2	1917.6	2101.5	2127.0	2261.0	2304.2	2385.1	2293.1	1866.6
60°	1783.6	1795.7	1816.8	2035.0	2268.8	2306.4	2412.8	2434.9	2452.7	2309.8	1836.7
62.5°	1872.2	1843.4	1908.7	2159.1	2419.4	2498.1	2582.3	2494.8	2479.3	2279.9	1768.0
65°	1916.5	1925.4	2010.7	2300.9	2619.9	2677.6	2688.6	2575.6	2495.9	2213.4	1703.8
67.5°	1985.2	1997.4	2105.9	2446.0	2826.0	2858.1	2818.2	2648.8	2481.5	2127.0	1472.3
70°	1994.0	2024.0	2233.3	2597.8	2955.6	2983.3	2952.3	2697.5	2365.2	1786.9	1090.1
72.5°	1947.5	2000.7	2264.3	2684.2	3064.2	3134.0	2960.0	2525.8	1906.5	1139.9	558.3
75°	1471.2	1515.5	2072.7	2555.7	2871.4	2888.0	2598.9	1927.6	1085.6	388.8	142.9
77.5°	762.2	838.6	1383.6	1953.1	2187.9	2170.2	1809.0	1135.5	373.3	101.9	57.6
80°	437.6	456.4	604.9	1096.7	1375.9	1308.3	1000.3	489.6	164.0	51.0	37.7
82.5°	216.0	242.6	325.7	490.8	687.9	566.1	375.5	293.6	91.9	27.7	33.2
85°	46.5	48.7	166.2	234.9	279.2	183.9	128.5	247.0	33.2	16.6	32.1
87.5°	33.2	32.1	46.5	105.2	77.5	47.6	76.4	129.6	7.8	7.8	6.6
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°	854.1	854.1	854.1	854.1	854.1	854.1	854.1	854.1	854.1	854.1	854.1
2.5°	854.1	844.1	833.1	812.0	806.5	803.2	784.3	783.2	779.9	772.1	768.8
5°	830.9	814.2	793.2	771.0	753.3	721.2	682.4	662.5	638.1	639.2	631.4
7.5°	827.5	796.5	766.6	720.1	663.6	603.8	543.9	505.2	477.5	460.8	464.2
10°	812.0	788.8	740.0	653.6	562.8	471.9	395.5	337.9	304.6	279.2	286.9
12.5°	818.7	773.2	704.6	589.3	459.7	347.8	252.6	197.2	172.8	164.0	166.2
15°	814.2	773.2	683.5	519.6	361.1	236.0	164.0	146.2	141.8	141.8	139.6
17.5°	827.5	782.1	648.1	450.9	259.2	157.3	140.7	137.4	134.0	134.0	134.0
20°	846.4	786.5	623.7	374.4	182.8	138.5	131.8	129.6	128.5	128.5	127.4
22.5°	847.5	782.1	578.3	290.2	140.7	130.7	125.2	124.1	124.1	121.9	121.9
25°	854.1	786.5	529.5	218.2	130.7	123.0	118.5	117.4	118.5	117.4	116.3
27.5°	870.7	794.3	480.8	159.5	123.0	116.3	113.0	111.9	111.9	111.9	109.7
30°	891.8	794.3	426.5	131.8	116.3	109.7	106.3	105.2	104.1	104.1	104.1
32.5°	936.1	819.8	360.0	117.4	107.5	101.9	98.6	98.6	97.5	97.5	96.4
35°	991.5	837.5	292.5	108.6	99.7	94.2	90.8	90.8	89.7	89.7	88.6
37.5°	1060.2	881.8	223.8	101.9	91.9	86.4	83.1	83.1	83.1	82.0	82.0
40°	1157.7	927.2	166.2	93.1	84.2	78.7	76.4	75.3	74.2	74.2	72.0
42.5°	1261.8	997.0	124.1	86.4	77.5	73.1	69.8	66.5	66.5	63.1	63.1
45°	1374.8	1057.9	100.8	78.7	70.9	65.4	62.0	59.8	56.5	54.3	54.3
47.5°	1485.6	1095.6	88.6	69.8	64.3	59.8	56.5	52.1	47.6	46.5	45.4
50°	1575.3	1106.7	78.7	63.1	58.7	54.3	49.9	44.3	39.9	37.7	36.6
52.5°	1575.3	1045.8	70.9	56.5	53.2	48.7	43.2	36.6	31.0	28.8	27.7
55°	1575.3	949.4	63.1	52.1	47.6	44.3	36.6	29.9	24.4	21.0	19.9
57.5°	1552.0	833.1	56.5	46.5	42.1	37.7	31.0	23.3	17.7	14.4	14.4
60°	1487.8	711.2	48.7	41.0	36.6	31.0	24.4	16.6	11.1	7.8	7.8
62.5°	1405.8	566.1	42.1	34.3	29.9	25.5	18.8	11.1	4.4	2.2	2.2
65°	1262.9	417.6	36.6	28.8	23.3	18.8	12.2	4.4	0.0	0.0	0.0
67.5°	1042.4	279.2	28.8	23.3	19.9	13.3	7.8	1.1	0.0	0.0	0.0
70°	733.4	158.4	22.2	16.6	14.4	8.9	2.2	0.0	0.0	0.0	0.0
72.5°	301.3	69.8	15.5	12.2	10.0	4.4	0.0	0.0	0.0	0.0	0.0
75°	82.0	31.0	10.0	6.6	5.5	1.1	0.0	0.0	0.0	0.0	0.0
77.5°	47.6	21.0	4.4	2.2	2.2	0.0	0.0	0.0	0.0	0.0	0.0
80°	37.7	10.0	2.2	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	37.7	5.5	1.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	32.1	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	4.4	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)