

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: P677041

Luminaire Tested: **CCW-SA-1D-830-U-SL3-HSS**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P677041
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-1D-830-U-SL3-HSS
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @800mA w/
SL3 distribution lens and House Side Shield
Light Source: (16) 3000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

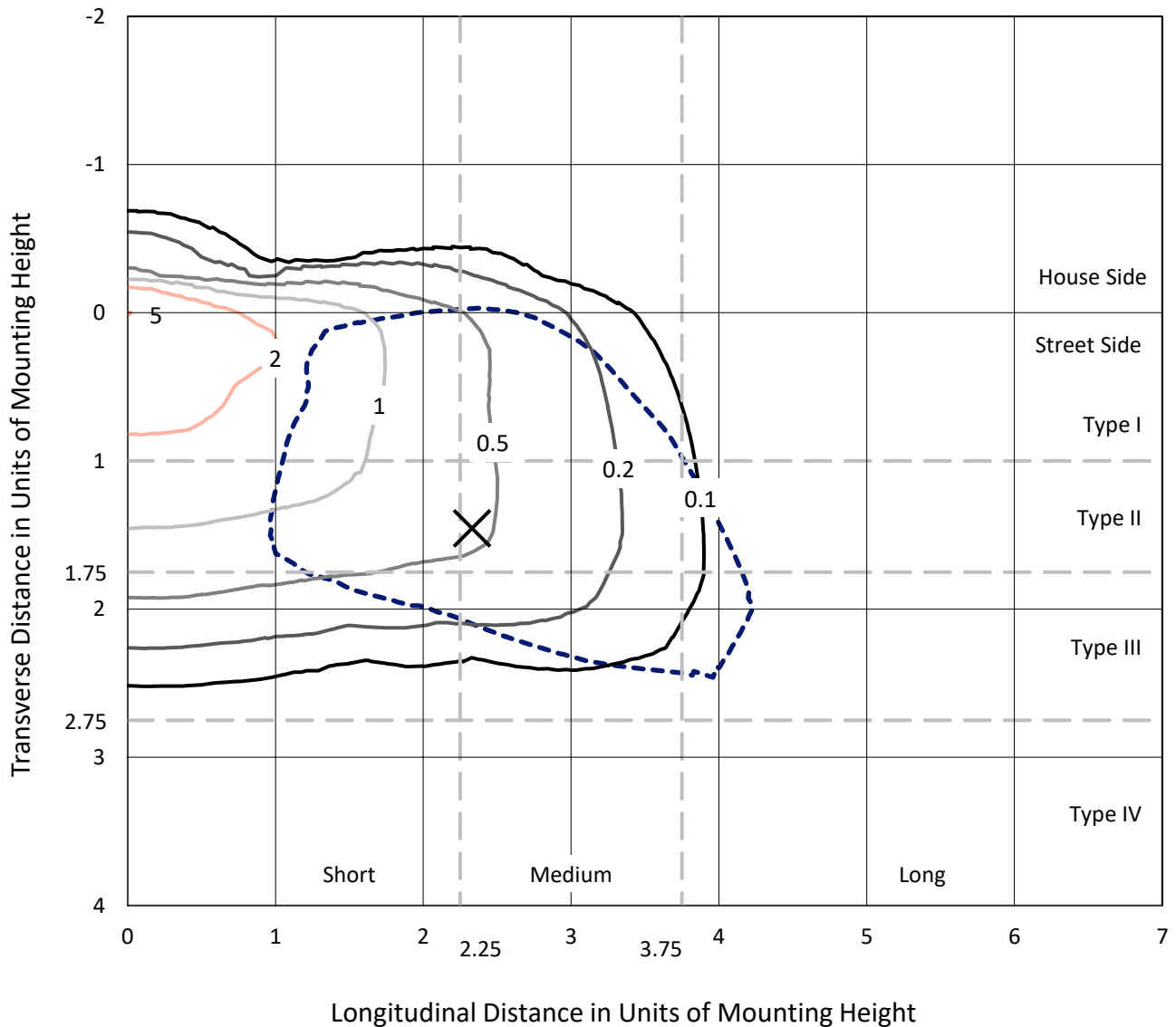
Lumens per Lamp: N/A
Luminaire Lumens: 3661.9 lumens
Efficiency: N/A
Efficacy: 83.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G1

Input Watts (W): 44
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

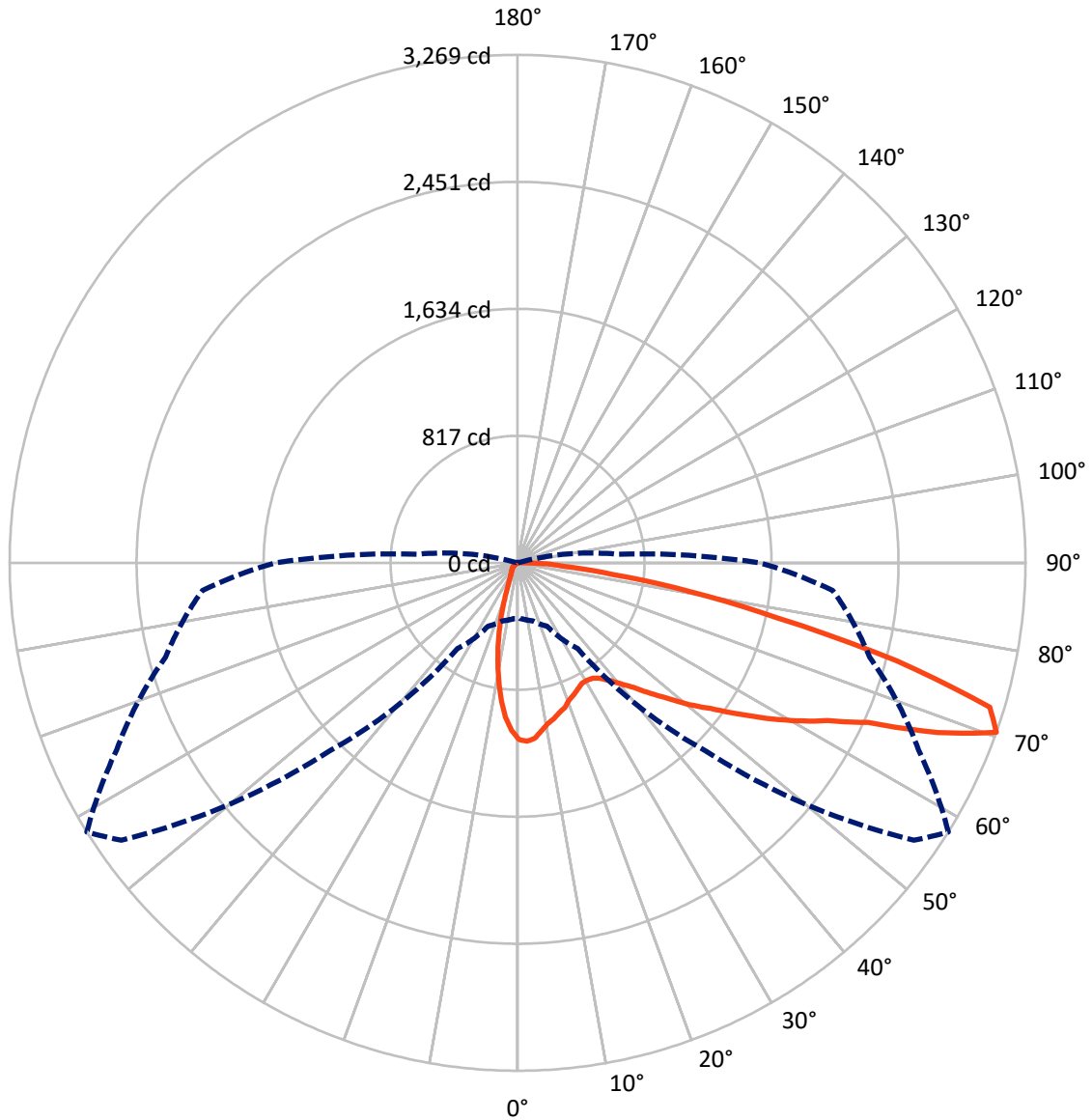
✕ Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 5.1 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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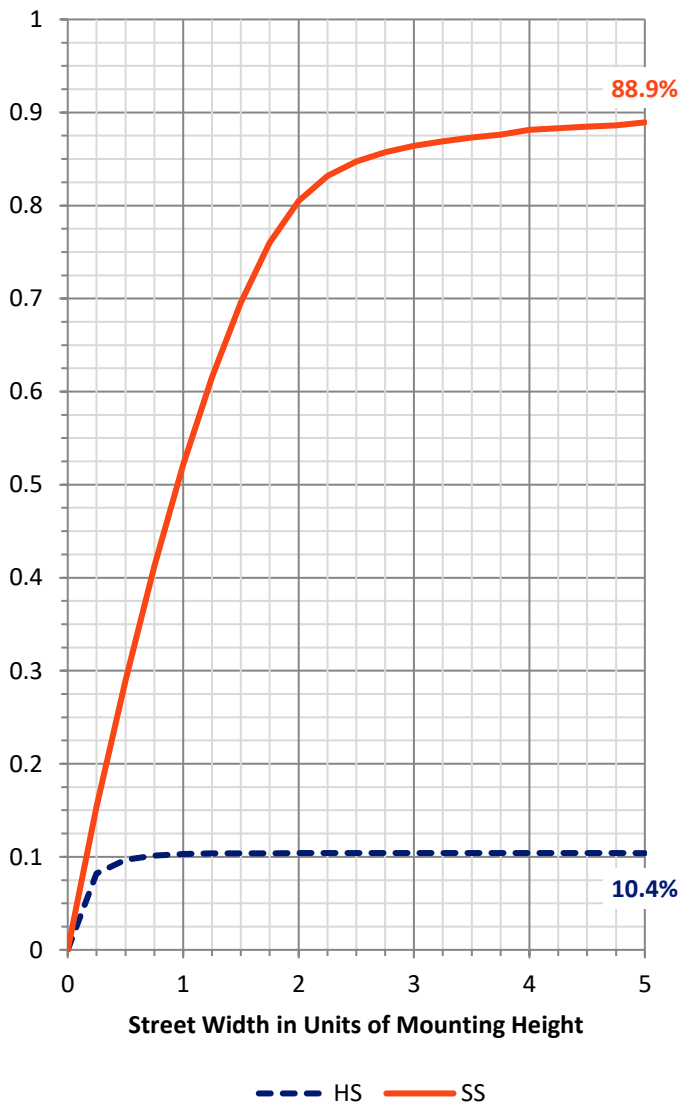
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	383.5	0.0	383.5
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	3278.4	0.0	3278.4
	% Fixture	89.5	0.0	89.5
Total	Lumens	3661.9	0.0	3661.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	92.8	2.5
10°-20°	193.1	5.3
20°-30°	258.6	7.1
30°-40°	349.5	9.5
40°-50°	501.6	13.7
50°-60°	739.2	20.2
60°-70°	901.7	24.6
70°-80°	550.6	15.0
80°-90°	74.8	2.0
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°	3661.9	100.0
0°-180°	3661.9	100.0

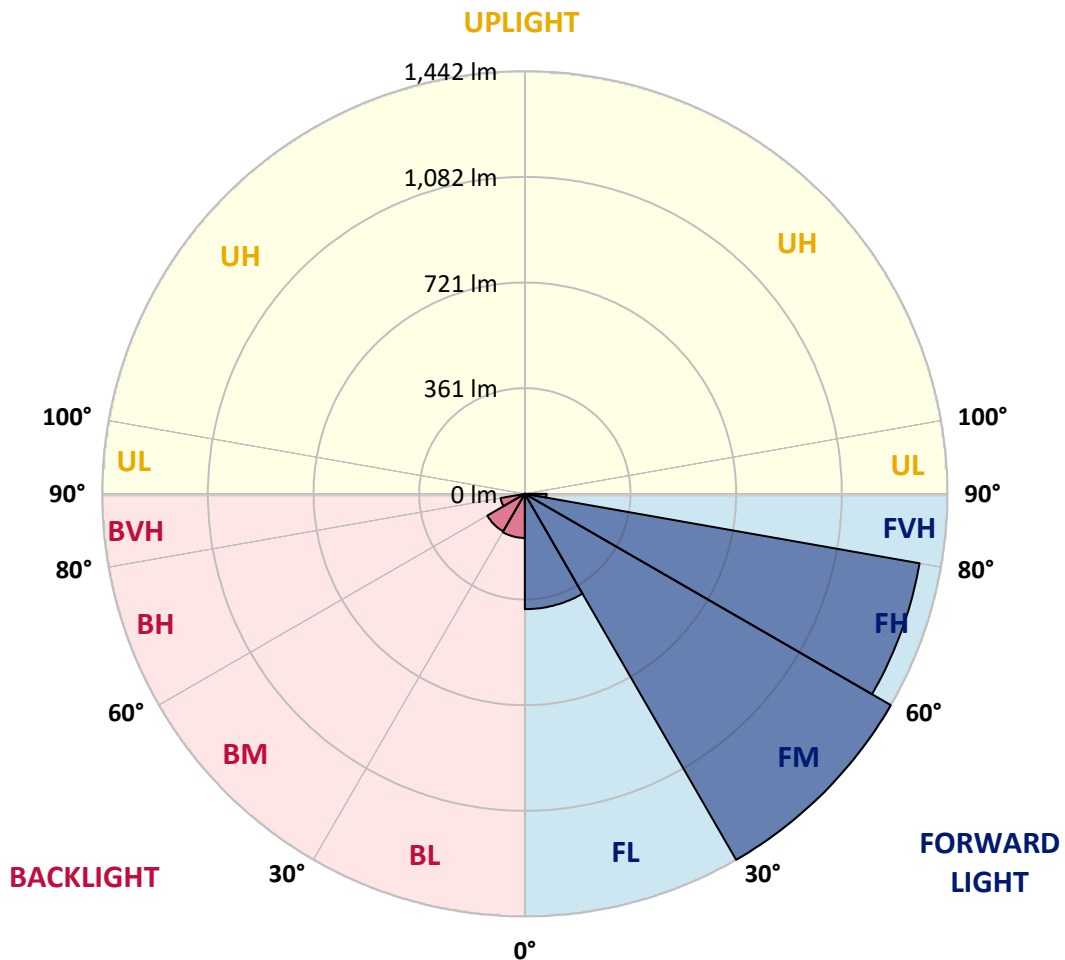


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	393.7	10.8			
FM (30°-60°)	1442.4	39.4			
FH (60°-80°)	1368.2	37.4			G1/1800
FVH (80°-90°)	74.1	2.0			G1/100
BL (0°-30°)	150.7	4.1	B1/500		
BM (30°-60°)	148.0	4.0	B0/220		
BH (60°-80°)	84.0	2.3	B0/110		G0/110
BVH (80°-90°)	0.7	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 III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	1136.8	1136.8	1136.8	1136.8	1136.8	1136.8	1136.8	1136.8	1136.8	1136.8	1136.8
2.5°	1157.4	1161.7	1151.4	1163.4	1152.2	1157.4	1151.4	1149.6	1150.5	1151.4	1144.5
5°	1103.3	1113.6	1117.9	1111.0	1127.3	1124.7	1135.0	1135.9	1131.6	1127.3	1128.2
7.5°	1032.0	1042.3	1046.6	1050.9	1067.2	1088.7	1102.4	1093.8	1100.7	1116.1	1093.0
10°	980.5	977.9	977.1	985.6	1016.6	1034.6	1057.8	1055.2	1072.4	1087.0	1068.1
12.5°	917.0	911.8	927.3	934.1	961.6	993.4	1011.4	1030.3	1047.5	1062.9	1041.5
15°	869.7	874.0	880.0	894.6	914.4	956.5	983.1	1001.1	1032.0	1039.7	1031.1
17.5°	832.0	835.4	844.0	851.7	876.6	917.0	959.0	980.5	1013.1	1033.7	1007.1
20°	832.8	822.5	822.5	830.2	844.0	892.1	936.7	943.6	988.2	1023.4	1005.4
22.5°	833.7	830.2	822.5	821.7	827.7	862.0	907.5	923.0	971.0	1012.3	990.8
25°	845.7	832.8	833.7	821.7	824.2	841.4	877.5	900.6	955.6	1018.3	983.1
27.5°	856.0	862.0	850.0	844.8	830.2	829.4	859.4	879.2	947.9	1032.0	988.2
30°	879.2	883.5	883.5	880.0	866.3	846.6	853.4	878.3	932.4	1029.4	979.6
32.5°	917.8	910.1	920.4	915.2	897.2	866.3	872.3	885.2	941.9	1062.1	993.4
35°	930.7	936.7	950.4	939.3	933.3	915.2	903.2	912.7	955.6	1094.7	1014.0
37.5°	970.2	961.6	971.0	995.9	1002.0	969.3	946.2	959.9	1007.1	1133.3	1032.9
40°	973.6	980.5	997.7	1046.6	1052.6	1038.9	1020.0	1023.4	1058.6	1183.1	1080.1
42.5°	990.8	998.5	1033.7	1074.9	1107.6	1110.1	1096.4	1096.4	1126.5	1263.0	1132.5
45°	1024.3	1011.4	1056.9	1126.5	1173.7	1183.1	1201.1	1196.9	1220.9	1347.1	1230.3
47.5°	1037.2	1041.5	1091.2	1175.4	1229.5	1273.3	1303.3	1304.2	1316.2	1454.4	1357.4
50°	1079.2	1078.4	1138.5	1216.6	1296.4	1376.3	1434.7	1434.7	1433.8	1559.2	1466.4
52.5°	1135.0	1133.3	1179.7	1272.4	1376.3	1476.8	1554.0	1556.6	1576.3	1688.0	1591.8
55°	1226.0	1218.3	1263.0	1331.7	1456.1	1578.1	1712.0	1712.9	1697.4	1779.8	1682.0
57.5°	1302.5	1301.6	1338.5	1404.6	1545.4	1708.6	1864.0	1887.1	1838.2	1874.3	1754.1
60°	1282.7	1293.9	1370.3	1468.2	1639.9	1871.7	2028.0	2064.0	1985.9	1938.7	1808.2
62.5°	1159.9	1185.7	1269.0	1425.2	1719.7	2108.7	2253.8	2237.4	2063.2	1993.6	1874.3
65°	834.5	860.3	963.3	1197.7	1627.0	2276.1	2550.8	2477.0	2200.5	2075.2	1962.7
67.5°	491.1	501.4	565.8	764.1	1216.6	2185.1	2911.4	2917.4	2471.0	2200.5	2115.5
70°	354.6	362.3	387.2	450.8	674.0	1712.9	3112.3	3268.6	2846.2	2344.8	2034.8
72.5°	272.2	272.2	314.2	375.2	429.3	1026.0	2864.2	3177.6	2927.7	2206.5	1639.9
75°	195.8	200.9	246.4	322.8	395.8	515.1	2110.4	2521.6	2481.3	1788.4	1145.3
77.5°	112.5	115.0	173.4	270.5	371.8	353.7	1304.2	1709.4	1757.5	1119.6	496.3
80°	57.5	59.2	97.0	213.8	336.6	308.2	777.9	1125.6	954.7	325.4	115.0
82.5°	28.3	28.3	43.8	136.5	285.9	273.0	457.6	621.6	338.3	74.7	48.1
85°	9.4	10.3	19.7	77.3	206.9	164.8	279.9	295.4	113.3	28.3	26.6
87.5°	2.6	3.4	5.2	28.3	90.2	108.2	166.6	188.9	46.4	11.2	12.9
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°	1136.8	1136.8	1136.8	1136.8	1136.8	1136.8	1136.8	1136.8	1136.8	1136.8	1136.8
2.5°	1118.7	1112.7	1105.8	1088.7	1074.9	1056.9	1044.9	1035.4	1017.4	1020.8	1013.1
5°	1107.6	1096.4	1056.9	1019.1	984.8	932.4	896.4	873.2	854.3	835.4	849.1
7.5°	1087.8	1061.2	999.4	929.0	856.0	787.3	718.6	677.4	647.4	619.9	619.0
10°	1054.3	1011.4	914.4	822.5	710.0	619.9	532.3	463.6	419.0	386.4	385.5
12.5°	1016.6	971.9	850.0	700.6	571.0	443.9	339.1	266.2	224.1	198.3	194.9
15°	992.5	927.3	769.3	592.4	431.9	289.3	188.0	142.5	126.2	120.2	120.2
17.5°	961.6	886.9	689.4	479.9	299.6	167.4	121.9	109.9	109.0	107.3	105.6
20°	948.7	856.0	618.2	382.9	189.7	118.5	104.7	102.2	102.2	100.5	98.7
22.5°	914.4	811.4	542.6	280.8	126.2	103.9	98.7	95.3	93.6	91.9	93.6
25°	898.9	779.6	471.4	194.0	103.0	92.7	90.2	86.7	84.1	83.3	83.3
27.5°	888.6	747.8	401.8	134.8	91.0	85.0	79.8	77.3	73.8	70.4	70.4
30°	880.9	722.9	334.8	99.6	81.6	75.6	71.3	65.3	61.0	57.5	57.5
32.5°	870.6	693.7	267.9	85.0	73.8	67.8	60.1	54.9	48.9	46.4	46.4
35°	874.0	674.0	210.4	75.6	66.1	58.4	51.5	44.6	38.6	36.1	35.2
37.5°	880.9	659.4	159.7	67.8	59.2	50.7	42.9	35.2	31.8	28.3	28.3
40°	910.1	655.1	117.6	62.7	54.1	44.6	36.1	29.2	25.8	23.2	22.3
42.5°	959.0	661.1	91.0	56.7	48.9	37.8	30.1	24.0	20.6	18.0	17.2
45°	1021.7	684.3	74.7	53.2	42.9	31.8	24.0	19.7	15.5	13.7	13.7
47.5°	1112.7	720.3	65.3	48.9	37.8	26.6	20.6	15.5	12.0	10.3	10.3
50°	1215.7	761.6	57.5	43.8	32.6	22.3	16.3	12.0	8.6	7.7	7.7
52.5°	1318.8	813.9	53.2	40.4	28.3	18.0	12.9	8.6	6.0	5.2	5.2
55°	1427.0	860.3	48.1	37.8	23.2	14.6	9.4	5.2	3.4	2.6	2.6
57.5°	1502.5	878.3	42.1	32.6	18.0	11.2	6.9	3.4	1.7	0.9	0.9
60°	1556.6	880.9	36.1	26.6	13.7	8.6	4.3	1.7	0.9	0.0	0.0
62.5°	1602.1	886.1	30.9	20.6	10.3	6.0	2.6	0.9	0.0	0.0	0.0
65°	1692.3	881.8	24.9	16.3	6.9	3.4	1.7	0.0	0.0	0.0	0.0
67.5°	1763.5	838.8	19.7	11.2	4.3	1.7	0.9	0.0	0.0	0.0	0.0
70°	1560.0	639.6	15.5	7.7	2.6	0.9	0.0	0.0	0.0	0.0	0.0
72.5°	1225.2	426.7	10.3	4.3	1.7	0.9	0.0	0.0	0.0	0.0	0.0
75°	803.6	212.1	7.7	2.6	0.9	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	312.5	55.8	5.2	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	75.6	18.9	2.6	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	32.6	6.9	1.7	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	19.7	3.4	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	10.3	1.7	0.9	0.9	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)