

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: P676899

Luminaire Tested: **CCW-SA-1F-830-U-SL2-HSS**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P676899
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-1F-830-U-SL2-HSS
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @1200mA w/
SL2 distribution lens and House Side Shield
Light Source: (16) 3000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

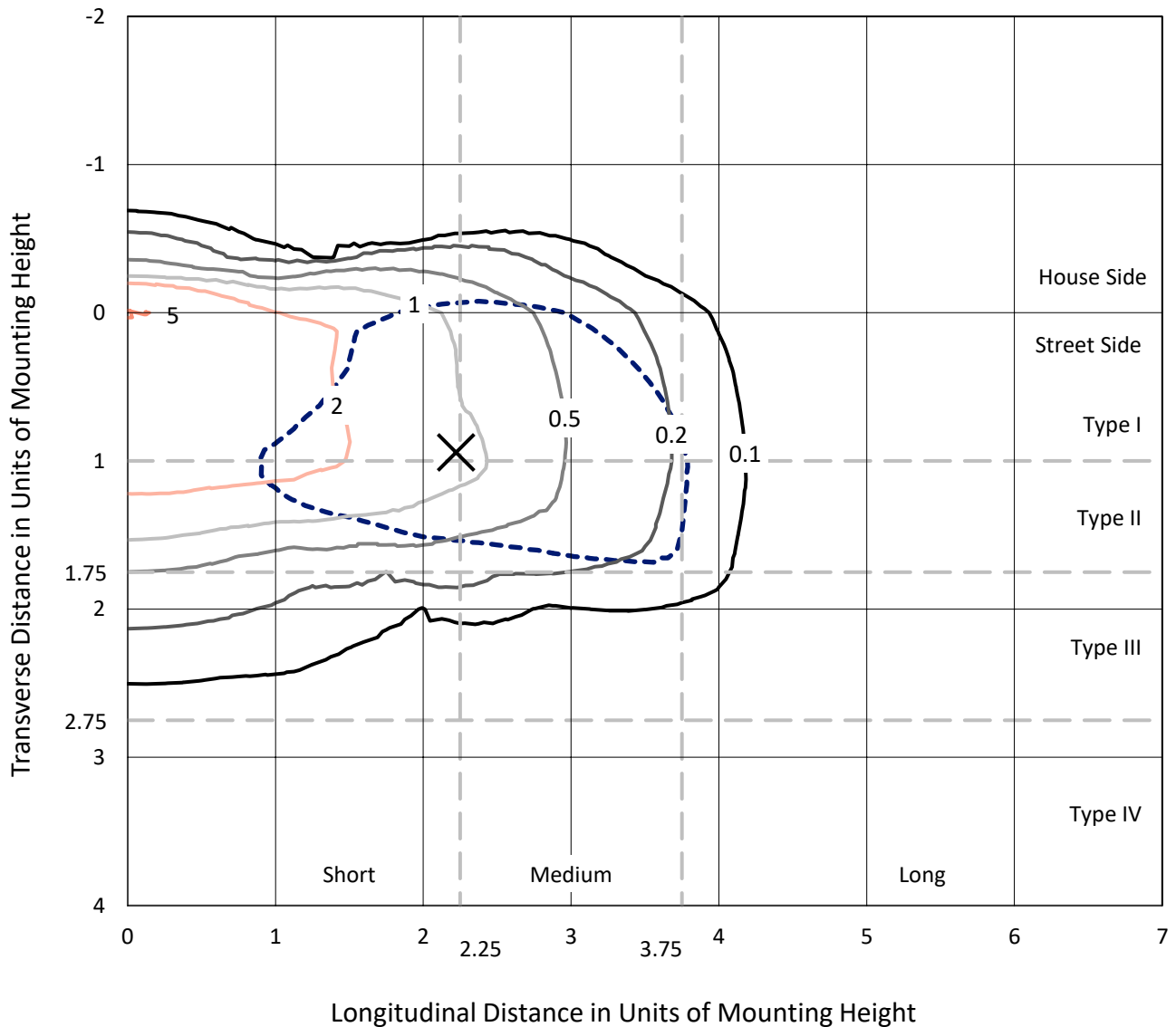
Lumens per Lamp: N/A
Luminaire Lumens: 4790.9 lumens
Efficiency: N/A
Efficacy: 71.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

Input Watts (W): 67
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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 CATALOG NUMBER: CCW-SA-1F-830-U-SL2-HSS

Iso-Footcandle Lines of Horizontal Illumination

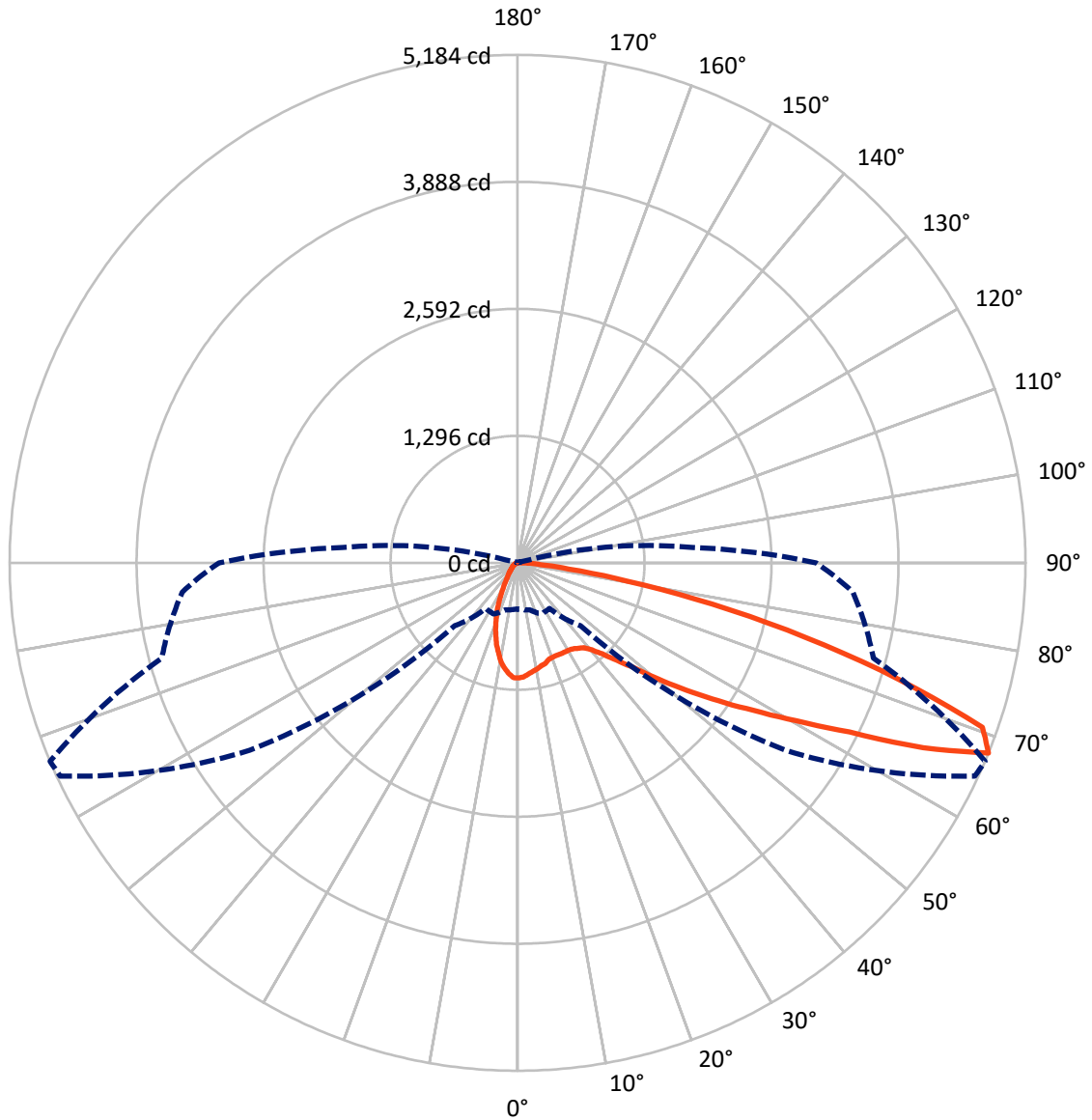
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 5.2 fc
 Type II - Short - N/A

REPORT NUMBER: P676899
CATALOG NUMBER: CCW-SA-1F-830-U-SL2-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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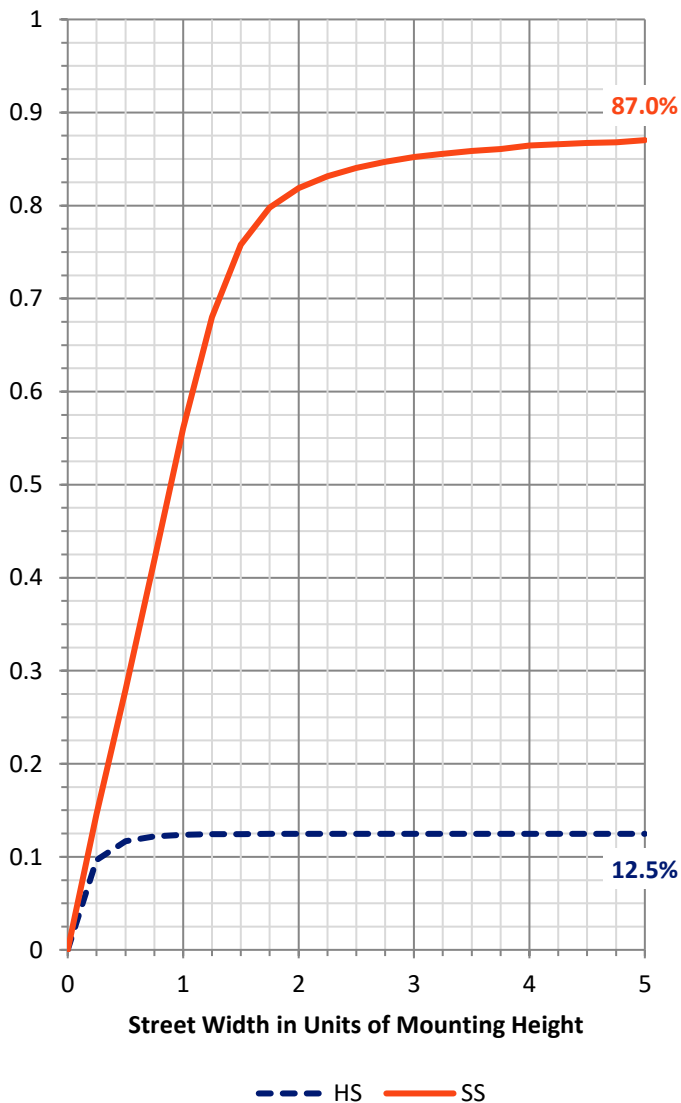
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	603.0	0.0	603.0
	% Fixture	12.6	0.0	12.6
Street Side	Lumens	4187.9	0.0	4187.9
	% Fixture	87.4	0.0	87.4
Total	Lumens	4790.9	0.0	4790.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	99.0	2.1
10°-20°	219.9	4.6
20°-30°	312.8	6.5
30°-40°	455.4	9.5
40°-50°	704.8	14.7
50°-60°	1081.7	22.6
60°-70°	1172.6	24.5
70°-80°	661.5	13.8
80°-90°	83.1	1.7
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°	4790.9	100.0
0°-180°	4790.9	100.0

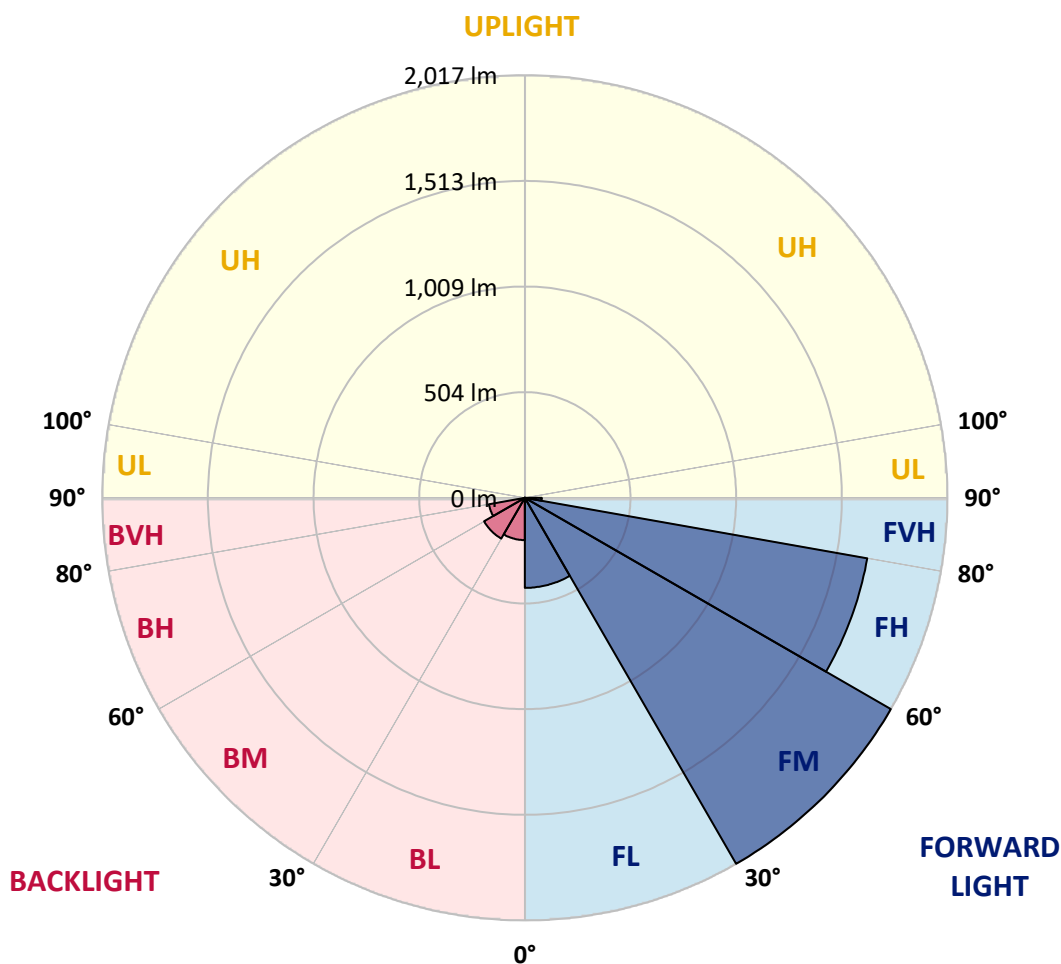


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	429.9	9.0			
FM (30°-60°)	2017.4	42.1			
FH (60°-80°)	1659.9	34.6			G1/1800
FVH (80°-90°)	80.7	1.7			G1/100
BL (0°-30°)	201.8	4.2	B1/500		
BM (30°-60°)	224.6	4.7	B1/1000		
BH (60°-80°)	174.2	3.6	B1/500		G1/500
BVH (80°-90°)	2.4	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 II Short





REPORT NUMBER: P676899

CATALOG NUMBER: CCW-SA-1F-830-U-SL2-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	1175.1	1175.1	1175.1	1175.1	1175.1	1175.1	1175.1	1175.1	1175.1	1175.1	1175.1
2.5°	1124.3	1130.1	1138.2	1149.7	1157.8	1153.2	1156.6	1176.3	1165.9	1175.1	1170.5
5°	1062.0	1067.8	1079.3	1078.2	1087.4	1104.7	1127.8	1153.2	1141.6	1169.3	1179.7
7.5°	997.3	995.0	995.0	1019.3	1038.9	1063.1	1075.8	1117.4	1118.6	1142.8	1168.2
10°	938.5	945.4	956.9	966.2	984.7	1019.3	1056.2	1088.5	1101.2	1149.7	1156.6
12.5°	902.7	906.2	920.0	928.1	952.3	985.8	1025.1	1066.6	1077.0	1126.6	1160.1
15°	887.7	895.8	900.4	915.4	928.1	959.3	988.1	1035.4	1065.5	1104.7	1146.3
17.5°	899.2	895.8	898.1	902.7	917.7	945.4	976.6	1023.9	1034.3	1100.1	1162.4
20°	914.2	915.4	908.5	906.2	902.7	929.2	954.6	1015.8	1027.4	1100.1	1172.8
22.5°	954.6	941.9	954.6	936.2	917.7	929.2	953.5	1017.0	1025.1	1098.9	1183.2
25°	1004.3	1006.6	1010.0	970.8	944.2	936.2	961.6	1020.4	1027.4	1108.2	1187.8
27.5°	1074.7	1085.1	1067.8	1048.1	995.0	954.6	960.4	1018.1	1030.8	1103.5	1199.4
30°	1169.3	1161.3	1163.6	1118.6	1066.6	1003.1	987.0	1023.9	1033.1	1109.3	1221.3
32.5°	1251.3	1242.1	1258.2	1242.1	1160.1	1072.4	1018.1	1035.4	1045.8	1123.2	1239.8
35°	1302.1	1313.6	1339.0	1356.3	1287.1	1162.4	1070.1	1066.6	1071.2	1130.1	1253.6
37.5°	1380.6	1401.4	1422.1	1466.0	1406.0	1273.2	1152.0	1107.0	1098.9	1163.6	1260.5
40°	1466.0	1460.2	1521.4	1573.4	1571.1	1429.1	1266.3	1178.6	1167.0	1216.7	1306.7
42.5°	1537.6	1531.8	1599.9	1685.3	1694.6	1579.1	1396.7	1280.2	1269.8	1298.6	1363.3
45°	1631.1	1635.7	1716.5	1818.1	1851.6	1777.7	1573.4	1425.6	1419.8	1410.6	1470.6
47.5°	1714.2	1739.6	1808.8	1928.9	2050.1	1983.2	1781.1	1638.0	1597.6	1576.8	1636.9
50°	1771.9	1795.0	1879.3	2007.4	2229.0	2271.7	2014.3	1864.3	1865.4	1814.6	1846.9
52.5°	1771.9	1770.8	1838.9	2007.4	2353.7	2573.0	2326.0	2149.4	2158.6	2105.5	2107.8
55°	1601.1	1597.6	1680.7	1859.6	2339.8	2862.8	2798.1	2510.7	2487.6	2384.9	2395.3
57.5°	1289.4	1297.5	1361.0	1575.7	2159.8	2997.8	3360.3	2917.0	2838.5	2626.1	2626.1
60°	940.8	933.9	981.2	1131.3	1730.4	2947.0	3822.0	3396.1	3272.5	2825.8	2795.8
62.5°	715.7	714.5	727.2	778.0	1097.8	2569.6	4020.6	4005.6	3804.7	3022.1	2979.3
65°	578.3	580.6	597.9	633.7	670.7	1752.3	3915.5	4732.8	4549.2	3314.1	3174.4
67.5°	472.1	477.9	498.7	576.0	567.9	907.3	3334.9	5149.5	5184.1	3759.7	3436.5
70°	363.6	372.9	397.1	506.8	547.2	603.7	2312.1	4941.7	5034.1	4036.7	3278.3
72.5°	247.0	245.9	297.8	410.9	552.9	552.9	1287.1	3980.2	4067.9	3721.6	2847.8
75°	133.9	142.0	197.4	310.5	506.8	534.5	733.0	2912.4	3035.9	2893.9	2202.5
77.5°	72.7	73.9	109.7	203.2	421.3	510.2	489.4	1980.8	2029.3	1745.4	1206.3
80°	38.1	39.2	57.7	132.7	290.9	473.3	407.5	1180.9	1134.7	669.5	398.2
82.5°	17.3	18.5	28.9	83.1	185.8	372.9	352.1	570.2	526.4	187.0	121.2
85°	6.9	6.9	12.7	49.6	108.5	183.5	301.3	286.3	238.9	56.6	60.0
87.5°	2.3	2.3	3.5	19.6	43.9	109.7	160.5	151.2	103.9	20.8	32.3
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°	1175.1	1175.1	1175.1	1175.1	1175.1	1175.1	1175.1	1175.1	1175.1	1175.1	1175.1
2.5°	1165.9	1178.6	1175.1	1172.8	1150.9	1148.6	1146.3	1125.5	1132.4	1115.1	1126.6
5°	1172.8	1179.7	1161.3	1126.6	1095.5	1060.8	1034.3	1015.8	982.3	969.6	967.3
7.5°	1165.9	1165.9	1127.8	1072.4	1011.2	954.6	883.1	832.3	794.2	765.3	775.7
10°	1156.6	1142.8	1103.5	1005.4	894.6	809.2	706.5	631.4	574.9	556.4	544.8
12.5°	1156.6	1132.4	1044.7	910.8	767.6	638.3	516.0	417.9	363.6	331.3	326.7
15°	1146.3	1110.5	1002.0	821.9	644.1	468.7	329.0	244.7	198.5	185.8	181.2
17.5°	1148.6	1105.9	938.5	716.8	499.8	311.7	200.9	154.7	143.1	137.4	138.5
20°	1153.2	1105.9	881.9	614.1	360.2	193.9	138.5	130.4	124.7	122.4	123.5
22.5°	1168.2	1083.9	824.2	509.1	243.6	139.7	122.4	114.3	109.7	106.2	105.0
25°	1170.5	1080.5	768.8	405.2	167.4	117.7	107.4	98.1	92.3	87.7	86.6
27.5°	1167.0	1065.5	691.4	301.3	125.8	105.0	91.2	82.0	73.9	70.4	69.3
30°	1179.7	1037.7	625.7	217.0	106.2	91.2	77.3	67.0	60.0	55.4	55.4
32.5°	1180.9	1013.5	552.9	154.7	97.0	80.8	65.8	54.3	47.3	45.0	45.0
35°	1182.0	991.6	472.1	117.7	86.6	69.3	54.3	45.0	40.4	36.9	36.9
37.5°	1185.5	975.4	398.2	99.3	77.3	58.9	45.0	36.9	32.3	31.2	31.2
40°	1192.4	953.5	320.9	87.7	67.0	49.6	38.1	31.2	26.5	25.4	24.2
42.5°	1210.9	947.7	256.3	78.5	60.0	41.6	31.2	25.4	21.9	19.6	18.5
45°	1287.1	962.7	198.5	72.7	50.8	34.6	26.5	20.8	16.2	15.0	13.9
47.5°	1411.8	1012.4	157.0	64.6	42.7	28.9	21.9	16.2	12.7	11.5	10.4
50°	1601.1	1125.5	128.1	57.7	35.8	24.2	17.3	12.7	9.2	8.1	8.1
52.5°	1849.2	1277.9	110.8	50.8	28.9	20.8	13.9	9.2	6.9	5.8	5.8
55°	2103.2	1457.9	103.9	43.9	24.2	17.3	10.4	6.9	4.6	3.5	3.5
57.5°	2336.4	1574.5	100.4	35.8	20.8	12.7	8.1	4.6	2.3	1.2	1.2
60°	2481.8	1659.9	90.0	28.9	16.2	10.4	5.8	2.3	1.2	0.0	0.0
62.5°	2673.4	1746.5	73.9	21.9	11.5	6.9	3.5	1.2	0.0	0.0	0.0
65°	2926.2	1843.5	57.7	17.3	9.2	4.6	2.3	1.2	0.0	0.0	0.0
67.5°	3047.5	1792.7	39.2	12.7	5.8	2.3	1.2	0.0	0.0	0.0	0.0
70°	2805.0	1509.9	27.7	9.2	3.5	1.2	1.2	0.0	0.0	0.0	0.0
72.5°	2358.3	1183.2	20.8	5.8	2.3	1.2	0.0	0.0	0.0	0.0	0.0
75°	1738.4	739.9	16.2	4.6	2.3	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	922.3	275.9	11.5	3.5	1.2	0.0	0.0	0.0	0.0	0.0	0.0
80°	272.4	80.8	8.1	2.3	1.2	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	90.0	24.2	4.6	2.3	1.2	0.0	0.0	0.0	0.0	0.0	0.0
85°	46.2	9.2	2.3	2.3	1.2	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	26.5	3.5	2.3	2.3	1.2	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)