

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: P676759

Luminaire Tested: **CCW-SA-2D-830-U-T4W-HSS**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P676759
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-2D-830-U-T4W-HSS
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @800mA w/
T4W distribution lens and House Side Shield
Light Source: (32) 3000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6393.7 lumens
Efficiency: N/A
Efficacy: 79.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B1 - U0 - G2

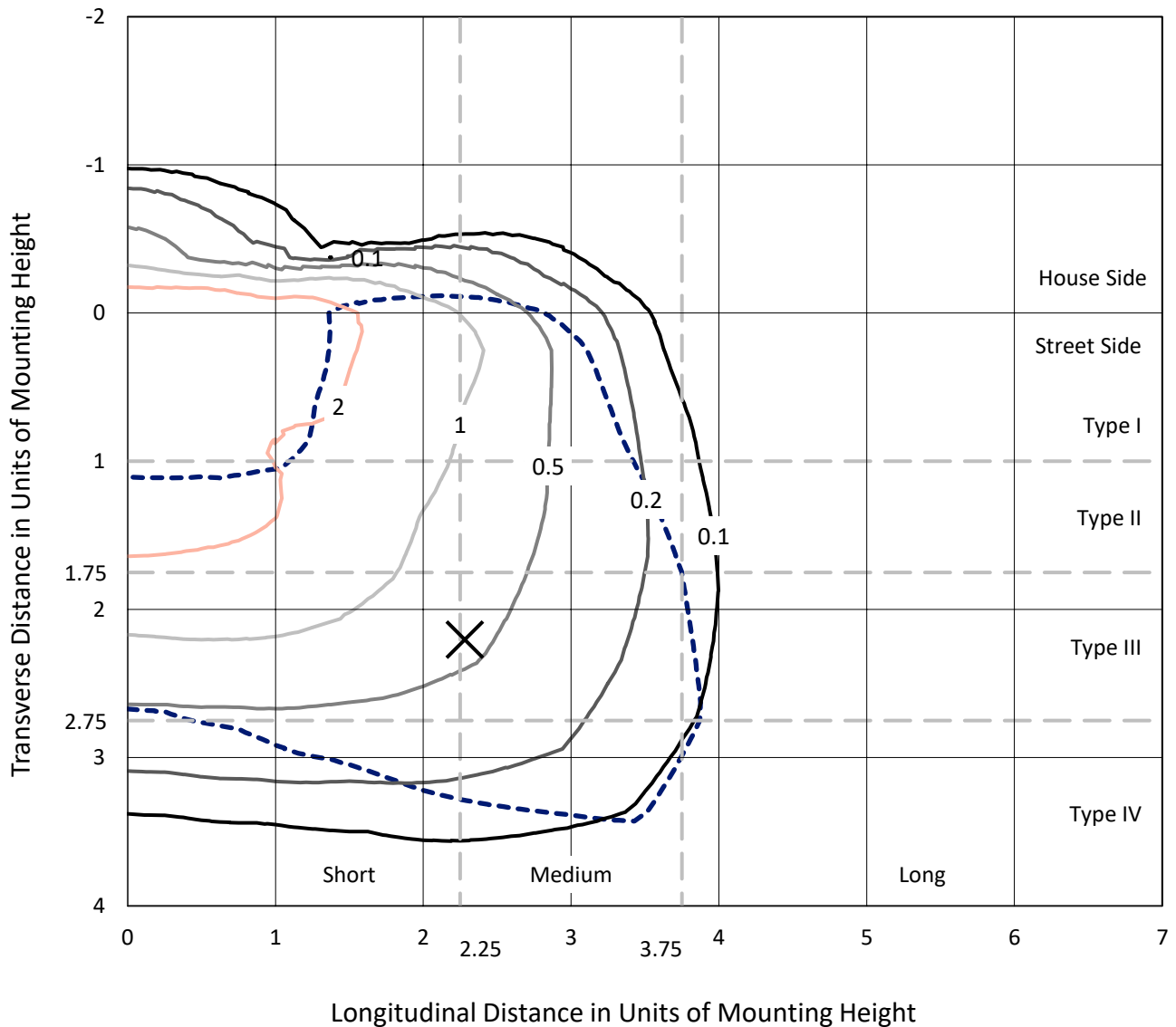
Input Watts (W): 80.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

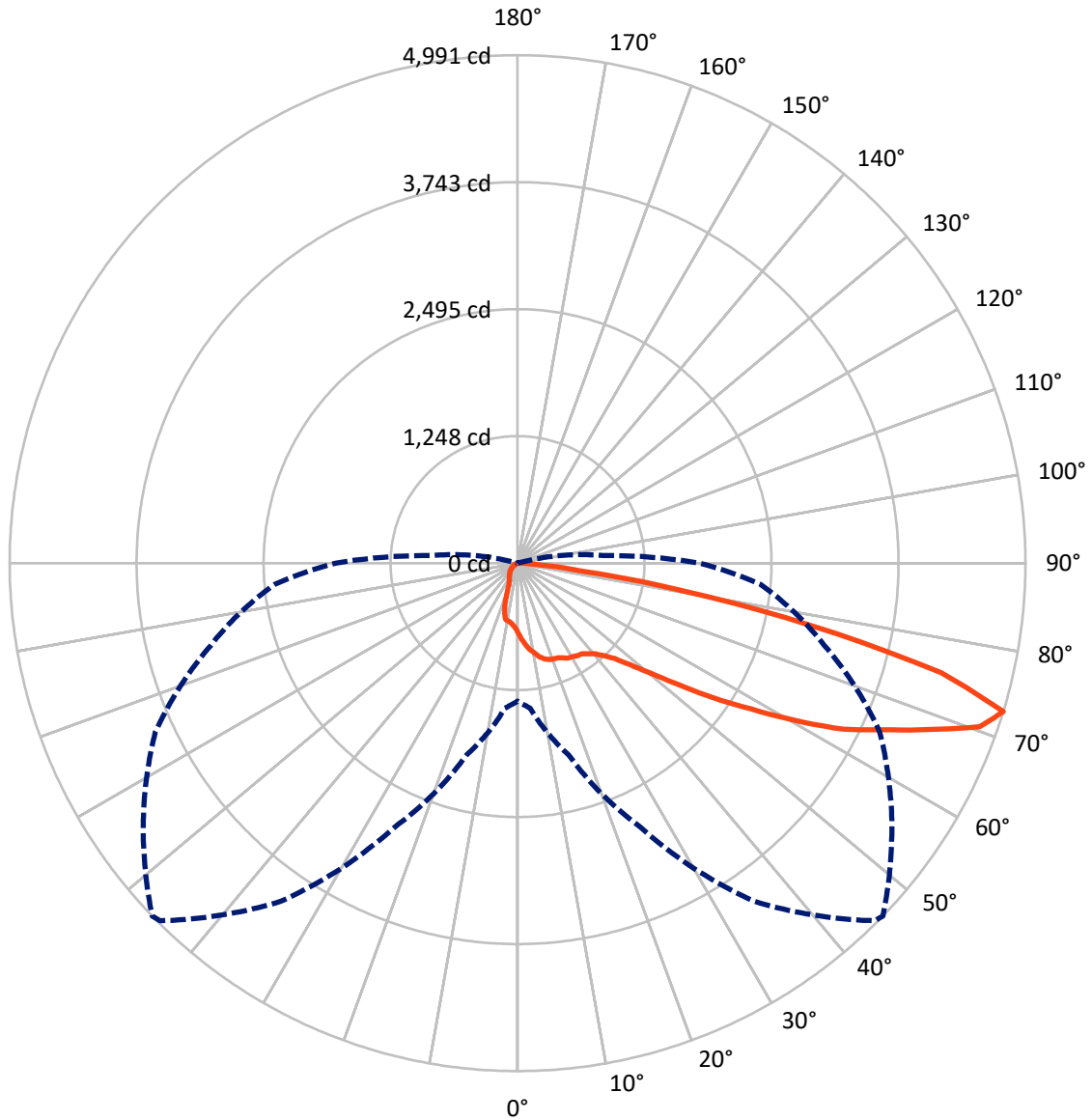
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 4.4 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 46-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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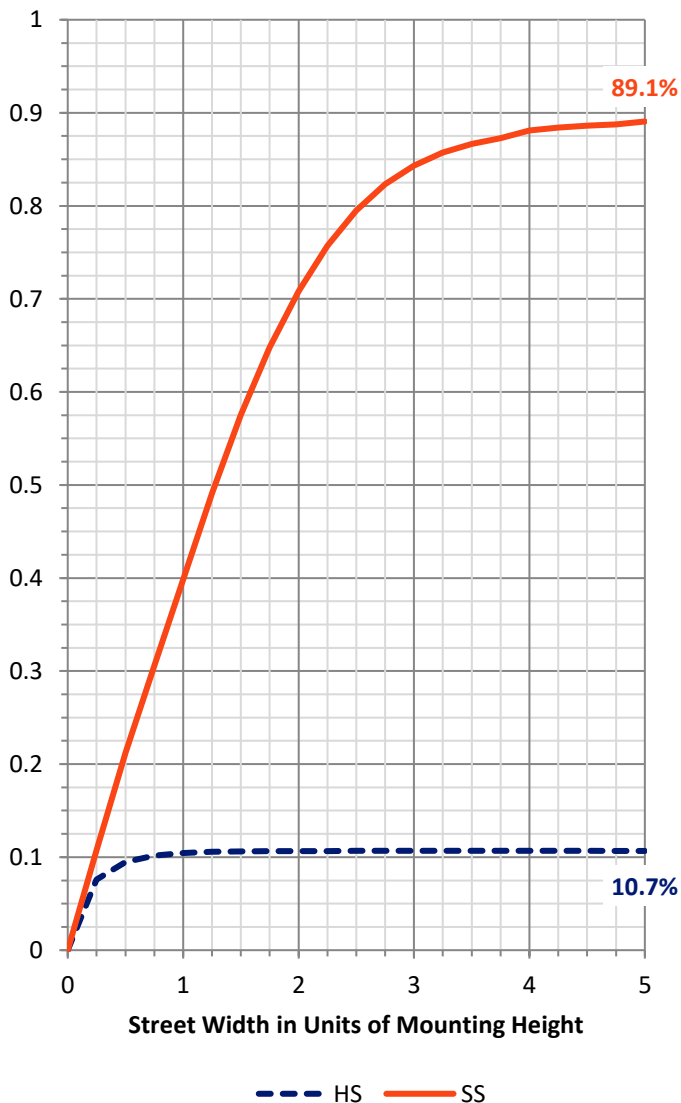
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	688.3	0.0	688.3
	% Fixture	10.8	0.0	10.8
Street Side	Lumens	5705.4	0.0	5705.4
	% Fixture	89.2	0.0	89.2
Total	Lumens	6393.7	0.0	6393.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	68.4	1.1
10°-20°	206.5	3.2
20°-30°	323.3	5.1
30°-40°	452.7	7.1
40°-50°	746.5	11.7
50°-60°	1341.8	21.0
60°-70°	1944.7	30.4
70°-80°	1213.7	19.0
80°-90°	96.2	1.5
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°	6393.7	100.0
0°-180°	6393.7	100.0



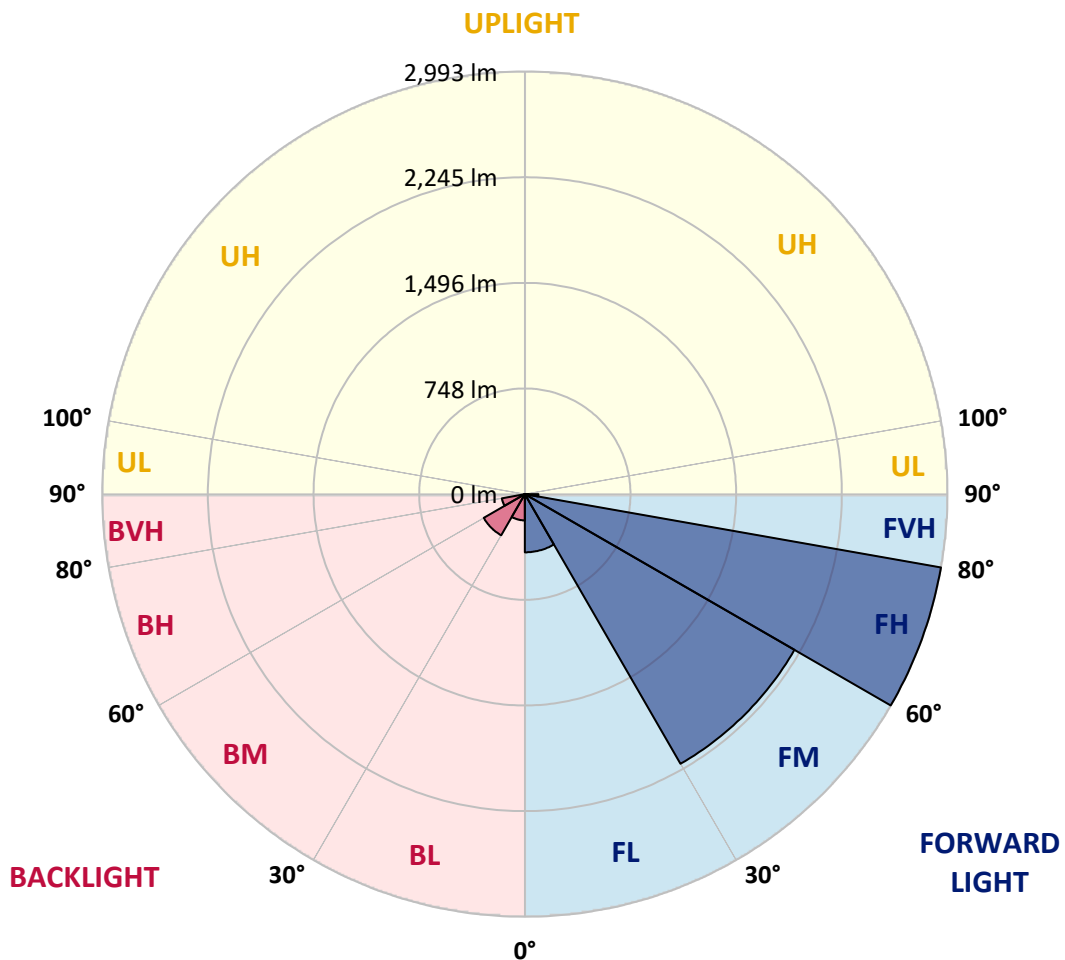
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	412.1	6.4			
FM (30°-60°)	2204.7	34.5			
FH (60°-80°)	2992.9	46.8			G2/5000
FVH (80°-90°)	95.7	1.5			G1/100
BL (0°-30°)	186.0	2.9	B1/500		
BM (30°-60°)	336.3	5.3	B1/1000		
BH (60°-80°)	165.5	2.6	B1/500		G1/500
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 Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	683.3	683.3	683.3	683.3	683.3	683.3	683.3	683.3	683.3	683.3	683.3
2.5°	764.9	761.6	766.5	764.9	745.3	748.6	746.9	733.9	711.1	698.0	689.9
5°	852.9	861.1	854.6	839.9	828.5	805.7	802.4	781.2	745.3	722.5	698.0
7.5°	944.3	944.3	931.2	908.4	883.9	859.5	856.2	820.3	789.3	750.2	716.0
10°	1012.8	1004.6	994.8	970.4	942.6	910.0	893.7	867.6	833.4	786.1	742.0
12.5°	1073.1	1060.1	1043.8	1007.9	975.3	939.4	942.6	900.2	877.4	835.0	769.8
15°	1107.4	1095.9	1081.3	1048.7	998.1	981.8	975.3	949.2	908.4	866.0	804.0
17.5°	1115.5	1107.4	1087.8	1045.4	1017.7	998.1	996.5	965.5	947.5	911.7	843.2
20°	1099.2	1084.5	1069.9	1042.1	1016.0	1009.5	1004.6	1004.6	981.8	934.5	867.6
22.5°	1071.5	1055.2	1047.0	1030.7	1009.5	1007.9	1011.1	1007.9	989.9	959.0	893.7
25°	1050.3	1042.1	1029.1	1024.2	1011.1	1035.6	1030.7	1025.8	1020.9	985.0	934.5
27.5°	1056.8	1055.2	1045.4	1025.8	1016.0	1042.1	1056.8	1058.4	1056.8	1020.9	972.0
30°	1060.1	1051.9	1042.1	1037.2	1040.5	1066.6	1066.6	1102.5	1087.8	1051.9	1009.5
32.5°	1097.6	1092.7	1060.1	1048.7	1050.3	1081.3	1082.9	1118.8	1113.9	1089.4	1042.1
35°	1177.5	1144.9	1097.6	1065.0	1065.0	1105.7	1092.7	1144.9	1157.9	1118.8	1065.0
37.5°	1296.5	1272.1	1187.3	1113.9	1086.2	1115.5	1128.6	1157.9	1197.1	1162.8	1110.6
40°	1533.0	1528.1	1407.4	1249.3	1140.0	1166.1	1171.0	1216.6	1242.7	1195.4	1180.8
42.5°	1878.8	1854.3	1741.8	1492.3	1237.8	1226.4	1244.4	1273.7	1335.7	1296.5	1260.7
45°	2216.4	2204.9	2092.4	1813.5	1415.6	1347.1	1337.3	1389.5	1480.8	1438.4	1410.7
47.5°	2461.0	2438.2	2374.6	2139.7	1676.5	1489.0	1495.5	1547.7	1663.5	1630.9	1639.0
50°	2648.5	2637.1	2570.3	2441.4	2006.0	1712.4	1699.4	1751.6	1908.1	1929.3	1952.2
52.5°	2854.0	2875.2	2785.5	2676.3	2395.8	2012.5	1983.1	2001.1	2203.3	2252.2	2315.8
55°	3051.4	3085.6	2995.9	2981.2	2803.5	2345.2	2340.3	2297.9	2558.8	2565.4	2599.6
57.5°	3180.2	3168.8	3162.3	3242.2	3211.2	2726.8	2702.4	2660.0	2896.4	2854.0	2956.8
60°	3190.0	3222.6	3331.9	3529.2	3584.7	3175.3	3139.4	3023.6	3188.4	3087.2	3283.0
62.5°	3263.4	3289.5	3491.7	3764.1	3835.8	3570.0	3594.5	3300.9	3437.9	3358.0	3645.0
65°	3077.5	3159.0	3565.1	3946.7	4165.3	3969.6	3945.1	3658.1	3693.9	3618.9	4002.2
67.5°	2909.5	2940.5	3364.5	4002.2	4426.2	4370.7	4361.0	3974.4	3958.1	3819.5	4103.3
70°	2364.8	2402.3	2821.4	3718.4	4514.3	4838.8	4816.0	4418.0	4137.5	3710.2	3584.7
72.5°	1355.3	1430.3	1955.4	2863.8	4056.0	4969.3	4990.5	4489.8	3925.5	3119.9	2394.1
75°	443.6	464.8	812.2	1622.7	3033.4	4334.9	4297.4	3858.7	3167.2	2059.8	1081.3
77.5°	150.0	153.3	239.7	587.1	1681.4	2929.1	2950.3	2757.8	1945.6	856.2	298.5
80°	76.7	81.5	117.4	220.2	691.5	1595.0	1629.2	1572.2	815.4	252.8	71.8
82.5°	35.9	37.5	68.5	122.3	316.4	626.3	626.3	688.2	288.7	141.9	29.4
85°	13.0	13.0	35.9	70.1	133.7	208.8	210.4	212.0	151.7	106.0	13.0
87.5°	4.9	4.9	17.9	29.4	48.9	63.6	63.6	50.6	76.7	70.1	4.9
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°	683.3	683.3	683.3	683.3	683.3	683.3	683.3	683.3	683.3	683.3	683.3
2.5°	686.6	676.8	668.7	657.2	642.6	634.4	636.0	626.3	626.3	621.4	619.7
5°	686.6	676.8	655.6	636.0	623.0	606.7	598.5	592.0	592.0	588.7	590.4
7.5°	691.5	676.8	647.5	621.4	600.2	583.9	570.8	569.2	565.9	557.8	564.3
10°	720.8	699.6	650.7	614.8	590.4	572.4	549.6	543.1	533.3	518.6	520.2
12.5°	745.3	717.6	673.6	624.6	593.6	564.3	512.1	455.0	430.6	404.5	406.1
15°	781.2	742.0	681.7	637.7	593.6	499.0	404.5	331.1	291.9	272.4	272.4
17.5°	800.8	768.1	704.5	645.8	546.3	406.1	287.0	223.4	216.9	220.2	220.2
20°	841.5	797.5	730.6	652.4	468.1	288.7	210.4	203.9	207.1	213.6	212.0
22.5°	867.6	823.6	750.2	623.0	362.1	207.1	197.3	194.1	197.3	205.5	205.5
25°	888.8	861.1	781.2	551.2	256.0	187.6	184.3	187.6	190.8	194.1	199.0
27.5°	941.0	893.7	802.4	458.3	184.3	174.5	177.8	179.4	179.4	184.3	185.9
30°	975.3	937.8	818.7	353.9	163.1	161.5	164.7	166.3	168.0	172.9	174.5
32.5°	1007.9	994.8	797.5	239.7	153.3	150.0	148.4	150.0	156.6	161.5	159.8
35°	1055.2	1047.0	766.5	166.3	143.5	137.0	133.7	135.4	140.3	145.1	143.5
37.5°	1112.3	1120.4	691.5	145.1	133.7	125.6	119.1	119.1	120.7	125.6	127.2
40°	1179.1	1200.3	603.4	135.4	127.2	117.4	110.9	102.7	101.1	99.5	101.1
42.5°	1301.4	1325.9	503.9	128.8	117.4	106.0	96.2	86.4	78.3	73.4	73.4
45°	1472.7	1453.1	373.5	122.3	112.5	96.2	81.5	70.1	58.7	53.8	53.8
47.5°	1709.2	1642.3	256.0	115.8	104.4	84.8	68.5	53.8	44.0	39.1	39.1
50°	2037.0	1816.8	166.3	109.3	99.5	73.4	55.4	39.1	32.6	31.0	32.6
52.5°	2346.8	1994.6	132.1	101.1	89.7	63.6	42.4	32.6	29.4	27.7	27.7
55°	2632.2	2084.3	117.4	93.0	81.5	52.2	35.9	27.7	26.1	24.5	24.5
57.5°	2873.6	2115.2	101.1	81.5	65.2	40.8	29.4	24.5	21.2	19.6	19.6
60°	3082.4	2123.4	78.3	65.2	47.3	31.0	24.5	21.2	17.9	14.7	14.7
62.5°	3248.7	2066.3	55.4	45.7	32.6	24.5	21.2	14.7	9.8	6.5	4.9
65°	3380.8	1952.2	37.5	31.0	21.2	17.9	13.0	6.5	1.6	0.0	0.0
67.5°	3225.9	1692.8	29.4	22.8	14.7	11.4	6.5	1.6	0.0	0.0	0.0
70°	2630.6	1312.9	21.2	14.7	9.8	3.3	1.6	0.0	0.0	0.0	0.0
72.5°	1790.7	846.4	16.3	9.8	4.9	1.6	0.0	0.0	0.0	0.0	0.0
75°	804.0	303.3	11.4	6.5	1.6	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	195.7	71.8	8.2	3.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	52.2	17.9	4.9	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	19.6	6.5	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	8.2	3.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	3.3	1.6	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)