

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: P676771

Luminaire Tested: **CCW-SA-2E-835-U-T4W-HSS**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P676771
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-2E-835-U-T4W-HSS
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @1050mA w/
T4W distribution lens and House Side Shield
Light Source: (32) 3500K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

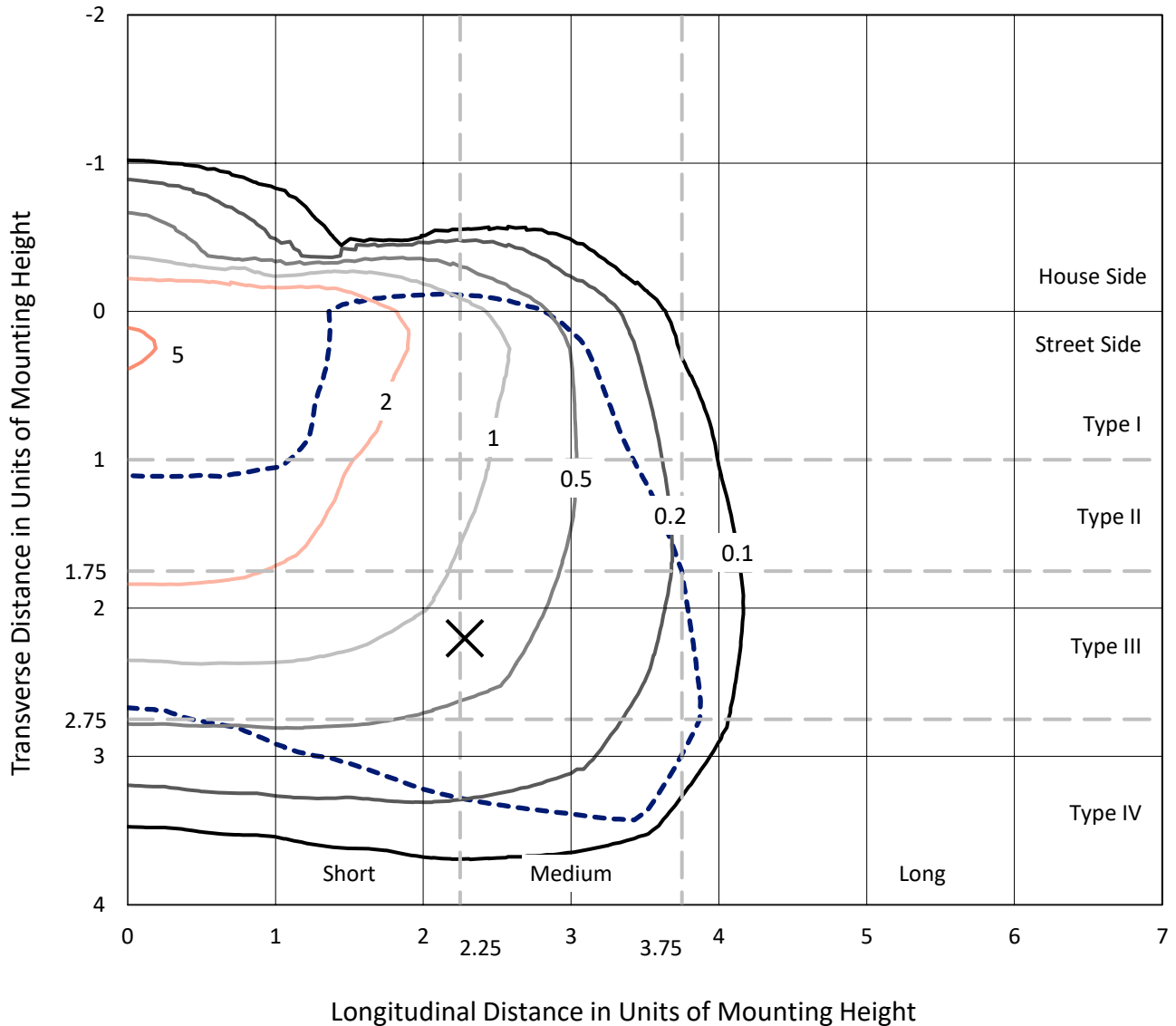
Lumens per Lamp: N/A
Luminaire Lumens: 8128.6 lumens
Efficiency: N/A
Efficacy: 76.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B1 - U0 - G2

Input Watts (W): 106.6
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

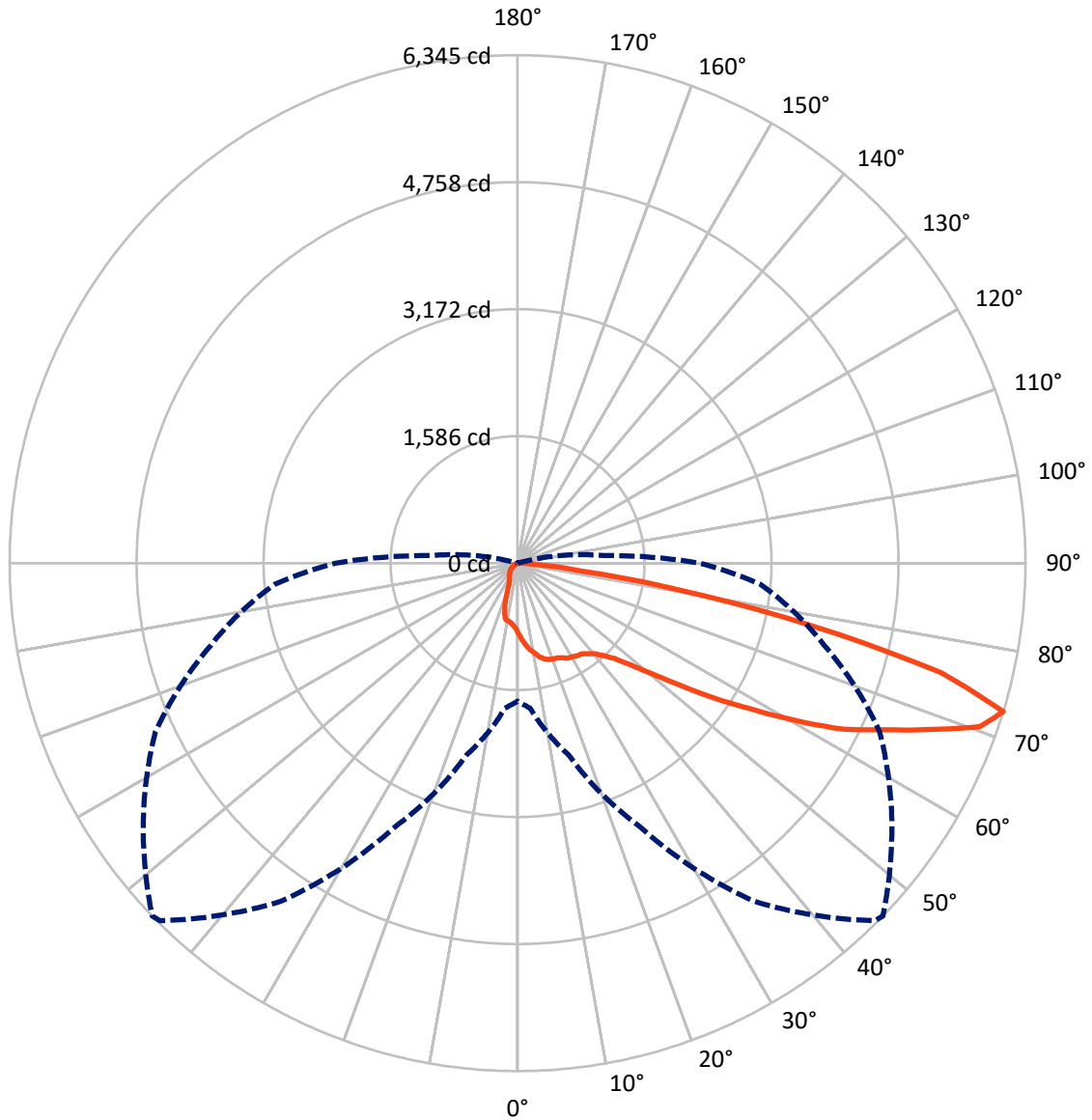
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 5.6 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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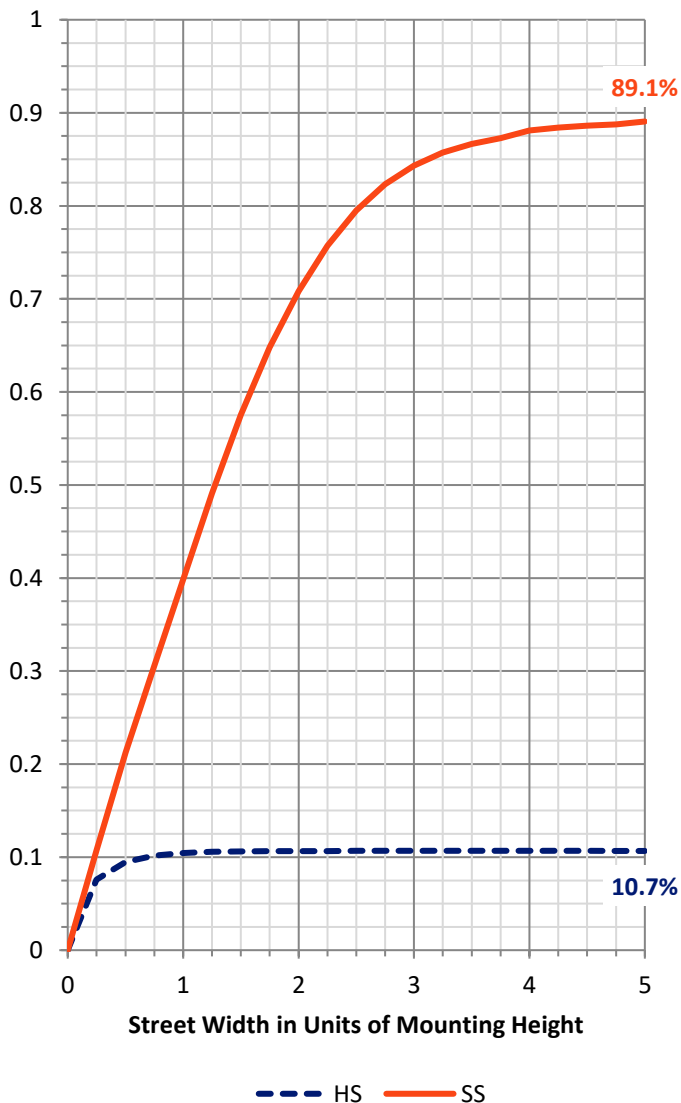
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	875.1	0.0	875.1
	% Fixture	10.8	0.0	10.8
Street Side	Lumens	7253.5	0.0	7253.5
	% Fixture	89.2	0.0	89.2
Total	Lumens	8128.6	0.0	8128.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	87.0	1.1
10°-20°	262.5	3.2
20°-30°	411.0	5.1
30°-40°	575.5	7.1
40°-50°	949.1	11.7
50°-60°	1705.8	21.0
60°-70°	2472.4	30.4
70°-80°	1543.0	19.0
80°-90°	122.3	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°	8128.6	100.0
0°-180°	8128.6	100.0



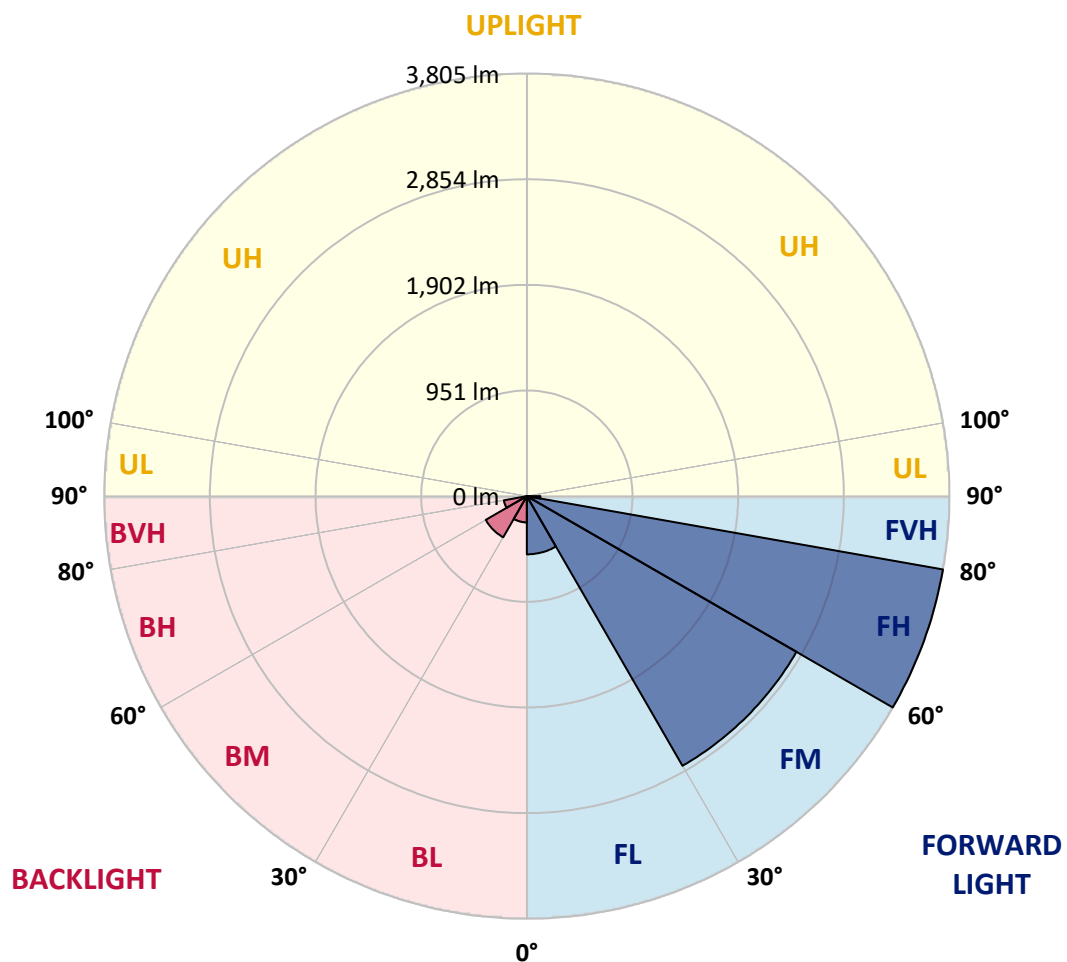
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	523.9	6.4			
FM (30°-60°)	2802.9	34.5			
FH (60°-80°)	3805.0	46.8			G2/5000
FVH (80°-90°)	121.6	1.5			G2/225
BL (0°-30°)	236.5	2.9	B1/500		
BM (30°-60°)	427.5	5.3	B1/1000		
BH (60°-80°)	210.4	2.6	B1/500		G1/500
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-G2

Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	868.8	868.8	868.8	868.8	868.8	868.8	868.8	868.8	868.8	868.8	868.8
2.5°	972.4	968.3	974.5	972.4	947.5	951.7	949.6	933.0	904.0	887.4	877.0
5°	1084.4	1094.8	1086.5	1067.8	1053.3	1024.3	1020.1	993.2	947.5	918.5	887.4
7.5°	1200.5	1200.5	1183.9	1154.9	1123.8	1092.7	1088.5	1042.9	1003.5	953.8	910.2
10°	1287.6	1277.2	1264.8	1233.7	1198.4	1157.0	1136.2	1103.0	1059.5	999.4	943.4
12.5°	1364.3	1347.7	1327.0	1281.4	1239.9	1194.3	1198.4	1144.5	1115.5	1061.6	978.6
15°	1407.8	1393.3	1374.7	1333.2	1268.9	1248.2	1239.9	1206.7	1154.9	1101.0	1022.2
17.5°	1418.2	1407.8	1383.0	1329.0	1293.8	1268.9	1266.8	1227.4	1204.6	1159.0	1071.9
20°	1397.5	1378.8	1360.1	1324.9	1291.7	1283.4	1277.2	1277.2	1248.2	1188.1	1103.0
22.5°	1362.2	1341.5	1331.1	1310.4	1283.4	1281.4	1285.5	1281.4	1258.6	1219.2	1136.2
25°	1335.3	1324.9	1308.3	1302.1	1285.5	1316.6	1310.4	1304.2	1297.9	1252.3	1188.1
27.5°	1343.6	1341.5	1329.0	1304.2	1291.7	1324.9	1343.6	1345.6	1343.6	1297.9	1235.7
30°	1347.7	1337.3	1324.9	1318.7	1322.8	1356.0	1356.0	1401.6	1383.0	1337.3	1283.4
32.5°	1395.4	1389.2	1347.7	1333.2	1335.3	1374.7	1376.7	1422.3	1416.1	1385.0	1324.9
35°	1497.0	1455.5	1395.4	1353.9	1353.9	1405.8	1389.2	1455.5	1472.1	1422.3	1353.9
37.5°	1648.3	1617.2	1509.4	1416.1	1380.9	1418.2	1434.8	1472.1	1521.9	1478.3	1412.0
40°	1949.0	1942.8	1789.3	1588.2	1449.3	1482.5	1488.7	1546.8	1579.9	1519.8	1501.1
42.5°	2388.6	2357.5	2214.4	1897.2	1573.7	1559.2	1582.0	1619.3	1698.1	1648.3	1602.7
45°	2817.7	2803.2	2660.2	2305.6	1799.7	1712.6	1700.2	1766.5	1882.6	1828.7	1793.5
47.5°	3128.8	3099.7	3018.9	2720.3	2131.5	1893.0	1901.3	1967.7	2114.9	2073.4	2083.8
50°	3367.2	3352.7	3267.7	3103.9	2550.3	2177.1	2160.5	2226.8	2425.9	2452.8	2481.9
52.5°	3628.4	3655.4	3541.4	3402.4	3045.8	2558.6	2521.2	2544.1	2801.2	2863.4	2944.2
55°	3879.3	3922.9	3808.8	3790.2	3564.2	2981.5	2975.3	2921.4	3253.2	3261.5	3305.0
57.5°	4043.1	4028.6	4020.3	4121.9	4082.5	3466.7	3435.6	3381.7	3682.3	3628.4	3759.1
60°	4055.6	4097.0	4235.9	4486.8	4557.3	4036.9	3991.3	3844.1	4053.5	3924.9	4173.7
62.5°	4148.9	4182.0	4439.1	4785.4	4876.6	4538.7	4569.8	4196.6	4370.7	4269.1	4634.0
65°	3912.5	4016.2	4532.4	5017.6	5295.5	5046.6	5015.5	4650.6	4696.2	4600.9	5088.1
67.5°	3698.9	3738.3	4277.4	5088.1	5627.2	5556.7	5544.3	5052.9	5032.1	4855.9	5216.7
70°	3006.4	3054.1	3587.0	4727.3	5739.2	6151.8	6122.7	5616.8	5260.2	4717.0	4557.3
72.5°	1723.0	1818.4	2486.0	3640.9	5156.5	6317.6	6344.6	5708.1	4990.7	3966.4	3043.7
75°	564.0	590.9	1032.6	2063.0	3856.5	5511.1	5463.4	4905.7	4026.5	2618.7	1374.7
77.5°	190.8	194.9	304.8	746.4	2137.7	3723.8	3750.8	3506.1	2473.6	1088.5	379.4
80°	97.4	103.7	149.3	279.9	879.1	2027.8	2071.3	1998.8	1036.7	321.4	91.2
82.5°	45.6	47.7	87.1	155.5	402.2	796.2	796.2	875.0	367.0	180.4	37.3
85°	16.6	16.6	45.6	89.2	170.0	265.4	267.5	269.5	192.8	134.8	16.6
87.5°	6.2	6.2	22.8	37.3	62.2	80.9	80.9	64.3	97.4	89.2	6.2
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°	868.8	868.8	868.8	868.8	868.8	868.8	868.8	868.8	868.8	868.8	868.8
2.5°	872.9	860.5	850.1	835.6	816.9	806.6	808.6	796.2	796.2	790.0	787.9
5°	872.9	860.5	833.5	808.6	792.0	771.3	760.9	752.6	752.6	748.5	750.6
7.5°	879.1	860.5	823.1	790.0	763.0	742.3	725.7	723.6	719.5	709.1	717.4
10°	916.4	889.5	827.3	781.7	750.6	727.8	698.7	690.4	678.0	659.3	661.4
12.5°	947.5	912.3	856.3	794.1	754.7	717.4	651.0	578.5	547.4	514.2	516.3
15°	993.2	943.4	866.7	810.7	754.7	634.5	514.2	420.9	371.1	346.3	346.3
17.5°	1018.0	976.6	895.7	821.1	694.6	516.3	364.9	284.1	275.8	279.9	279.9
20°	1069.9	1013.9	928.9	829.4	595.1	367.0	267.5	259.2	263.3	271.6	269.5
22.5°	1103.0	1047.1	953.8	792.0	460.3	263.3	250.9	246.7	250.9	261.2	261.2
25°	1130.0	1094.8	993.2	700.8	325.5	238.4	234.3	238.4	242.6	246.7	253.0
27.5°	1196.3	1136.2	1020.1	582.6	234.3	221.9	226.0	228.1	228.1	234.3	236.4
30°	1239.9	1192.2	1040.8	449.9	207.3	205.3	209.4	211.5	213.6	219.8	221.9
32.5°	1281.4	1264.8	1013.9	304.8	194.9	190.8	188.7	190.8	199.0	205.3	203.2
35°	1341.5	1331.1	974.5	211.5	182.5	174.2	170.0	172.1	178.3	184.5	182.5
37.5°	1414.1	1424.4	879.1	184.5	170.0	159.7	151.4	151.4	153.4	159.7	161.7
40°	1499.1	1526.0	767.2	172.1	161.7	149.3	141.0	130.6	128.6	126.5	128.6
42.5°	1654.6	1685.7	640.7	163.8	149.3	134.8	122.3	109.9	99.5	93.3	93.3
45°	1872.3	1847.4	474.8	155.5	143.1	122.3	103.7	89.2	74.6	68.4	68.4
47.5°	2172.9	2087.9	325.5	147.2	132.7	107.8	87.1	68.4	56.0	49.8	49.8
50°	2589.7	2309.8	211.5	138.9	126.5	93.3	70.5	49.8	41.5	39.4	41.5
52.5°	2983.6	2535.8	167.9	128.6	114.0	80.9	53.9	41.5	37.3	35.2	35.2
55°	3346.5	2649.8	149.3	118.2	103.7	66.3	45.6	35.2	33.2	31.1	31.1
57.5°	3653.3	2689.2	128.6	103.7	82.9	51.8	37.3	31.1	27.0	24.9	24.9
60°	3918.7	2699.6	99.5	82.9	60.1	39.4	31.1	27.0	22.8	18.7	18.7
62.5°	4130.2	2627.0	70.5	58.1	41.5	31.1	27.0	18.7	12.4	8.3	6.2
65°	4298.1	2481.9	47.7	39.4	27.0	22.8	16.6	8.3	2.1	0.0	0.0
67.5°	4101.2	2152.2	37.3	29.0	18.7	14.5	8.3	2.1	0.0	0.0	0.0
70°	3344.4	1669.1	27.0	18.7	12.4	4.1	2.1	0.0	0.0	0.0	0.0
72.5°	2276.6	1076.1	20.7	12.4	6.2	2.1	0.0	0.0	0.0	0.0	0.0
75°	1022.2	385.7	14.5	8.3	2.1	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	248.8	91.2	10.4	4.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	66.3	22.8	6.2	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	24.9	8.3	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	10.4	4.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	4.1	2.1	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)