

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: P676781

Luminaire Tested: **CCW-SA-2D-840-U-T4W-HSS**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P676781
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-2D-840-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) 4000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

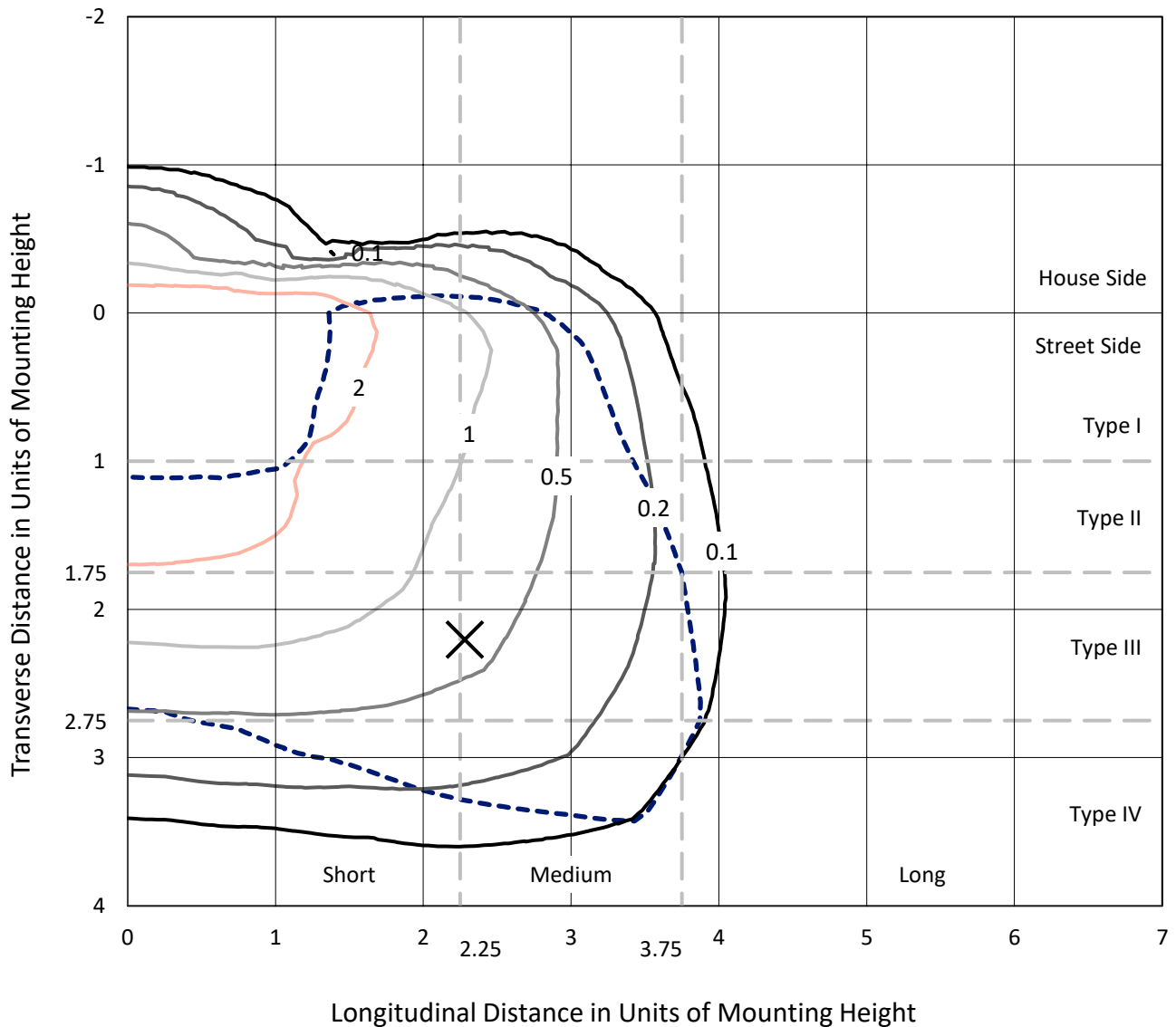
Lumens per Lamp: N/A
Luminaire Lumens: 6860.4 lumens
Efficiency: N/A
Efficacy: 84.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B1 - U0 - G2

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

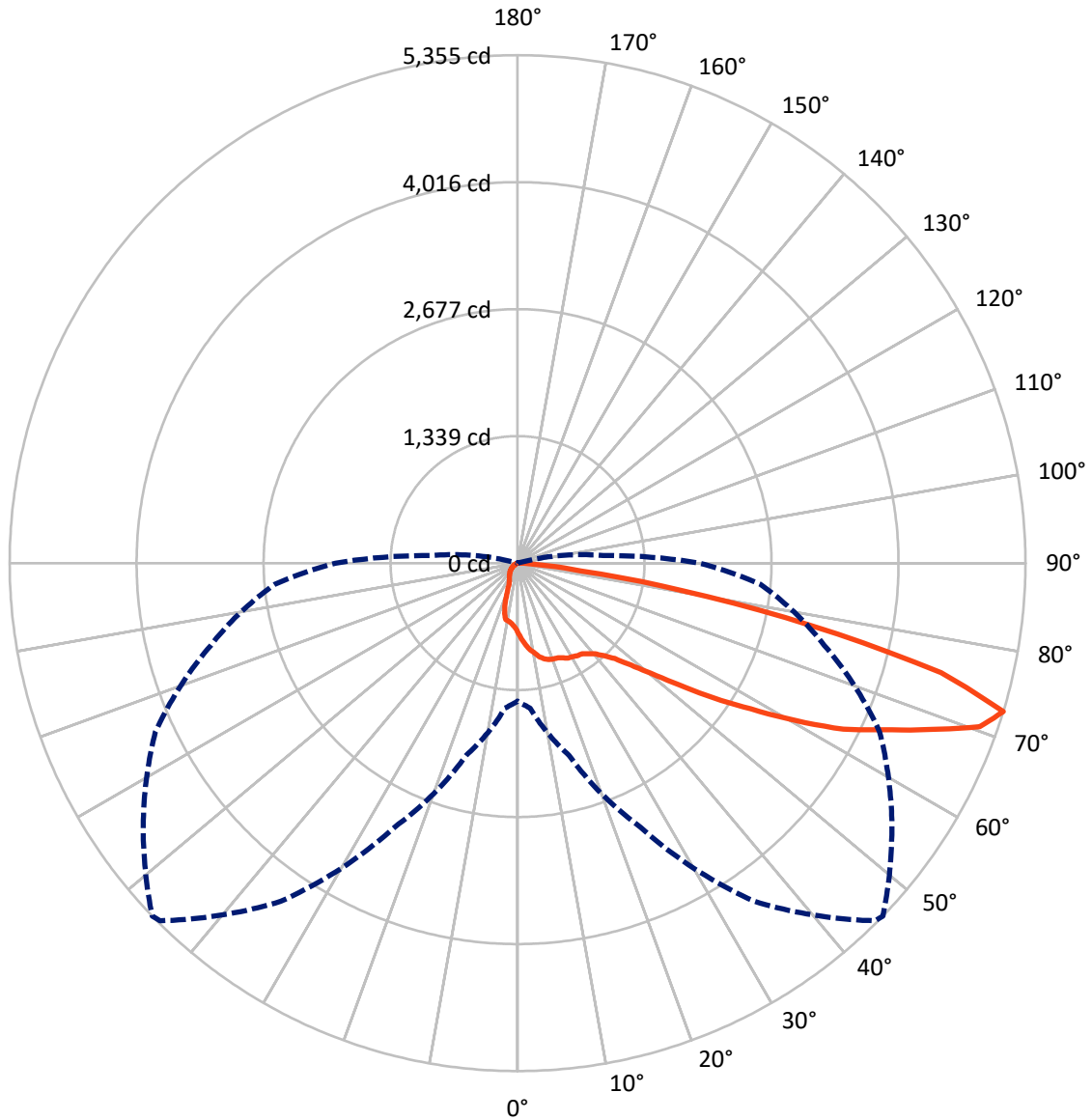
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 4.8 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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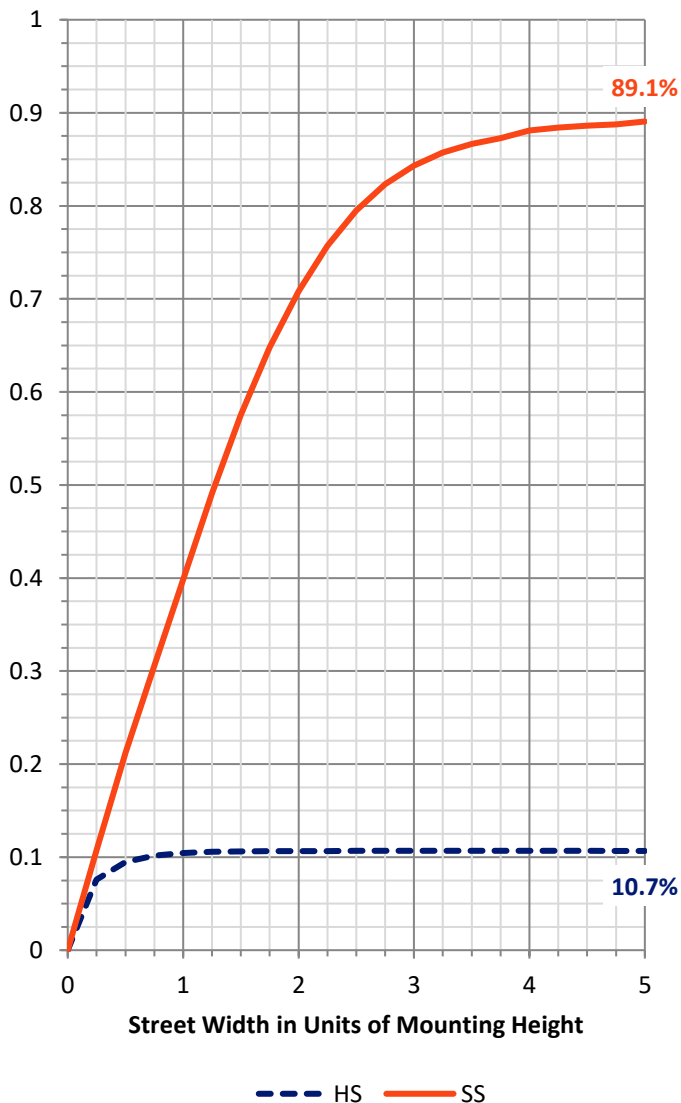
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	738.6	0.0	738.6
	% Fixture	10.8	0.0	10.8
Street Side	Lumens	6121.8	0.0	6121.8
	% Fixture	89.2	0.0	89.2
Total	Lumens	6860.4	0.0	6860.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	73.4	1.1
10°-20°	221.5	3.2
20°-30°	346.9	5.1
30°-40°	485.7	7.1
40°-50°	801.0	11.7
50°-60°	1439.7	21.0
60°-70°	2086.7	30.4
70°-80°	1302.3	19.0
80°-90°	103.2	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°	6860.4	100.0
0°-180°	6860.4	100.0



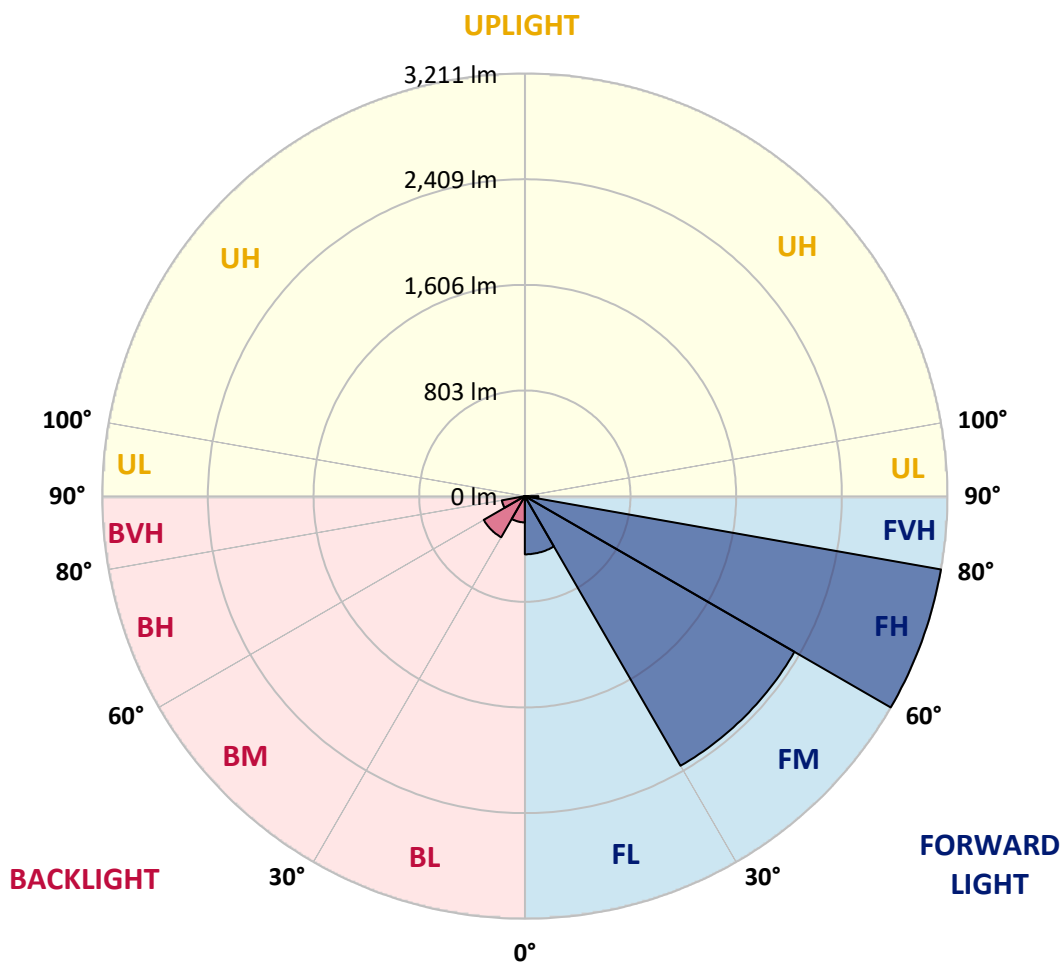
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	442.2	6.4			
FM (30°-60°)	2365.6	34.5			
FH (60°-80°)	3211.4	46.8			G2/5000
FVH (80°-90°)	102.7	1.5			G2/225
BL (0°-30°)	199.6	2.9	B1/500		
BM (30°-60°)	360.8	5.3	B1/1000		
BH (60°-80°)	177.6	2.6	B1/500		G1/500
BVH (80°-90°)	0.6	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°	733.2	733.2	733.2	733.2	733.2	733.2	733.2	733.2	733.2	733.2	733.2
2.5°	820.7	817.2	822.5	820.7	799.7	803.2	801.5	787.5	763.0	749.0	740.2
5°	915.2	924.0	917.0	901.2	889.0	864.5	861.0	838.2	799.7	775.2	749.0
7.5°	1013.2	1013.2	999.2	974.7	948.5	922.2	918.7	880.2	847.0	805.0	768.2
10°	1086.7	1077.9	1067.4	1041.2	1011.5	976.5	959.0	931.0	894.2	843.5	796.2
12.5°	1151.4	1137.4	1119.9	1081.4	1046.5	1008.0	1011.5	966.0	941.5	896.0	826.0
15°	1188.2	1175.9	1160.2	1125.2	1070.9	1053.5	1046.5	1018.5	974.7	929.2	862.7
17.5°	1196.9	1188.2	1167.2	1121.7	1091.9	1070.9	1069.2	1036.0	1016.7	978.2	904.7
20°	1179.4	1163.7	1147.9	1118.2	1090.2	1083.2	1077.9	1077.9	1053.5	1002.7	931.0
22.5°	1149.7	1132.2	1123.4	1105.9	1083.2	1081.4	1084.9	1081.4	1062.2	1029.0	959.0
25°	1126.9	1118.2	1104.2	1098.9	1084.9	1111.2	1105.9	1100.7	1095.4	1057.0	1002.7
27.5°	1133.9	1132.2	1121.7	1100.7	1090.2	1118.2	1133.9	1135.7	1133.9	1095.4	1043.0
30°	1137.4	1128.7	1118.2	1112.9	1116.4	1144.4	1144.4	1182.9	1167.2	1128.7	1083.2
32.5°	1177.7	1172.4	1137.4	1125.2	1126.9	1160.2	1161.9	1200.4	1195.2	1168.9	1118.2
35°	1263.4	1228.4	1177.7	1142.7	1142.7	1186.4	1172.4	1228.4	1242.4	1200.4	1142.7
37.5°	1391.2	1364.9	1273.9	1195.2	1165.4	1196.9	1210.9	1242.4	1284.4	1247.7	1191.7
40°	1644.9	1639.7	1510.2	1340.4	1223.2	1251.2	1256.4	1305.4	1333.4	1282.7	1266.9
42.5°	2015.9	1989.7	1868.9	1601.2	1328.2	1315.9	1335.2	1366.7	1433.2	1391.2	1352.7
45°	2378.1	2365.9	2245.1	1945.9	1518.9	1445.4	1434.9	1490.9	1588.9	1543.4	1513.7
47.5°	2640.6	2616.1	2547.9	2295.9	1798.9	1597.7	1604.7	1660.7	1784.9	1749.9	1758.7
50°	2841.9	2829.6	2757.9	2619.6	2152.4	1837.4	1823.4	1879.4	2047.4	2070.2	2094.7
52.5°	3062.4	3085.1	2988.9	2871.6	2570.6	2159.4	2127.9	2147.1	2364.1	2416.6	2484.9
55°	3274.1	3310.8	3214.6	3198.9	3008.1	2516.4	2511.1	2465.6	2745.6	2752.6	2789.4
57.5°	3412.3	3400.1	3393.1	3478.8	3445.6	2925.9	2899.6	2854.1	3107.9	3062.4	3172.6
60°	3422.8	3457.8	3575.1	3786.8	3846.3	3407.1	3368.6	3244.3	3421.1	3312.6	3522.6
62.5°	3501.6	3529.6	3746.6	4038.8	4115.8	3830.6	3856.8	3541.8	3688.8	3603.1	3911.1
65°	3302.1	3389.6	3825.3	4234.8	4469.3	4259.3	4233.1	3925.1	3963.6	3883.1	4294.3
67.5°	3121.9	3155.1	3610.1	4294.3	4749.3	4689.8	4679.3	4264.6	4247.1	4098.3	4402.8
70°	2537.4	2577.6	3027.4	3989.8	4843.8	5192.0	5167.5	4740.5	4439.5	3981.1	3846.3
72.5°	1454.2	1534.7	2098.2	3072.9	4352.0	5332.0	5354.7	4817.5	4212.1	3347.6	2568.9
75°	476.0	498.7	871.5	1741.2	3254.8	4651.3	4611.0	4140.3	3398.3	2210.1	1160.2
77.5°	161.0	164.5	257.2	630.0	1804.2	3142.9	3165.6	2959.1	2087.7	918.7	320.2
80°	82.2	87.5	126.0	236.2	742.0	1711.4	1748.2	1686.9	875.0	271.2	77.0
82.5°	38.5	40.2	73.5	131.2	339.5	672.0	672.0	738.5	309.7	152.2	31.5
85°	14.0	14.0	38.5	75.2	143.5	224.0	225.7	227.5	162.7	113.7	14.0
87.5°	5.2	5.2	19.2	31.5	52.5	68.2	68.2	54.2	82.2	75.2	5.2
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°	733.2	733.2	733.2	733.2	733.2	733.2	733.2	733.2	733.2	733.2	733.2
2.5°	736.7	726.2	717.5	705.2	689.5	680.7	682.5	672.0	672.0	666.7	665.0
5°	736.7	726.2	703.5	682.5	668.5	651.0	642.2	635.2	635.2	631.7	633.5
7.5°	742.0	726.2	694.7	666.7	644.0	626.5	612.5	610.7	607.2	598.5	605.5
10°	773.5	750.7	698.2	659.7	633.5	614.2	589.7	582.7	572.2	556.5	558.2
12.5°	799.7	770.0	722.7	670.2	637.0	605.5	549.5	488.2	462.0	434.0	435.7
15°	838.2	796.2	731.5	684.2	637.0	535.5	434.0	355.2	313.2	292.2	292.2
17.5°	859.2	824.2	756.0	693.0	586.2	435.7	308.0	239.7	232.7	236.2	236.2
20°	903.0	855.7	784.0	700.0	502.2	309.7	225.7	218.7	222.2	229.2	227.5
22.5°	931.0	883.7	805.0	668.5	388.5	222.2	211.7	208.2	211.7	220.5	220.5
25°	953.7	924.0	838.2	591.5	274.7	201.2	197.7	201.2	204.7	208.2	213.5
27.5°	1009.7	959.0	861.0	491.7	197.7	187.2	190.7	192.5	192.5	197.7	199.5
30°	1046.5	1006.2	878.5	379.7	175.0	173.2	176.7	178.5	180.2	185.5	187.2
32.5°	1081.4	1067.4	855.7	257.2	164.5	161.0	159.2	161.0	168.0	173.2	171.5
35°	1132.2	1123.4	822.5	178.5	154.0	147.0	143.5	145.2	150.5	155.7	154.0
37.5°	1193.4	1202.2	742.0	155.7	143.5	134.7	127.7	127.7	129.5	134.7	136.5
40°	1265.2	1287.9	647.5	145.2	136.5	126.0	119.0	110.2	108.5	106.7	108.5
42.5°	1396.4	1422.7	540.7	138.2	126.0	113.7	103.2	92.7	84.0	78.7	78.7
45°	1580.2	1559.2	400.7	131.2	120.7	103.2	87.5	75.2	63.0	57.7	57.7
47.5°	1833.9	1762.2	274.7	124.2	112.0	91.0	73.5	57.7	47.2	42.0	42.0
50°	2185.6	1949.4	178.5	117.2	106.7	78.7	59.5	42.0	35.0	33.2	35.0
52.5°	2518.1	2140.1	141.7	108.5	96.2	68.2	45.5	35.0	31.5	29.7	29.7
55°	2824.4	2236.4	126.0	99.7	87.5	56.0	38.5	29.7	28.0	26.2	26.2
57.5°	3083.4	2269.6	108.5	87.5	70.0	43.7	31.5	26.2	22.7	21.0	21.0
60°	3307.3	2278.4	84.0	70.0	50.7	33.2	26.2	22.7	19.2	15.7	15.7
62.5°	3485.8	2217.1	59.5	49.0	35.0	26.2	22.7	15.7	10.5	7.0	5.2
65°	3627.6	2094.7	40.2	33.2	22.7	19.2	14.0	7.0	1.7	0.0	0.0
67.5°	3461.3	1816.4	31.5	24.5	15.7	12.2	7.0	1.7	0.0	0.0	0.0
70°	2822.6	1408.7	22.7	15.7	10.5	3.5	1.7	0.0	0.0	0.0	0.0
72.5°	1921.4	908.2	17.5	10.5	5.2	1.7	0.0	0.0	0.0	0.0	0.0
75°	862.7	325.5	12.2	7.0	1.7	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	210.0	77.0	8.7	3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	56.0	19.2	5.2	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	21.0	7.0	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	8.7	3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	3.5	1.7	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)