

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: P676528

Luminaire Tested: **CCW-SA-2E-722-U-T4FT-HSS**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P676528
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-2E-722-U-T4FT-HSS
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @1050mA w/
T4FT distribution lens and House Side Shield
Light Source: (32) 2200K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

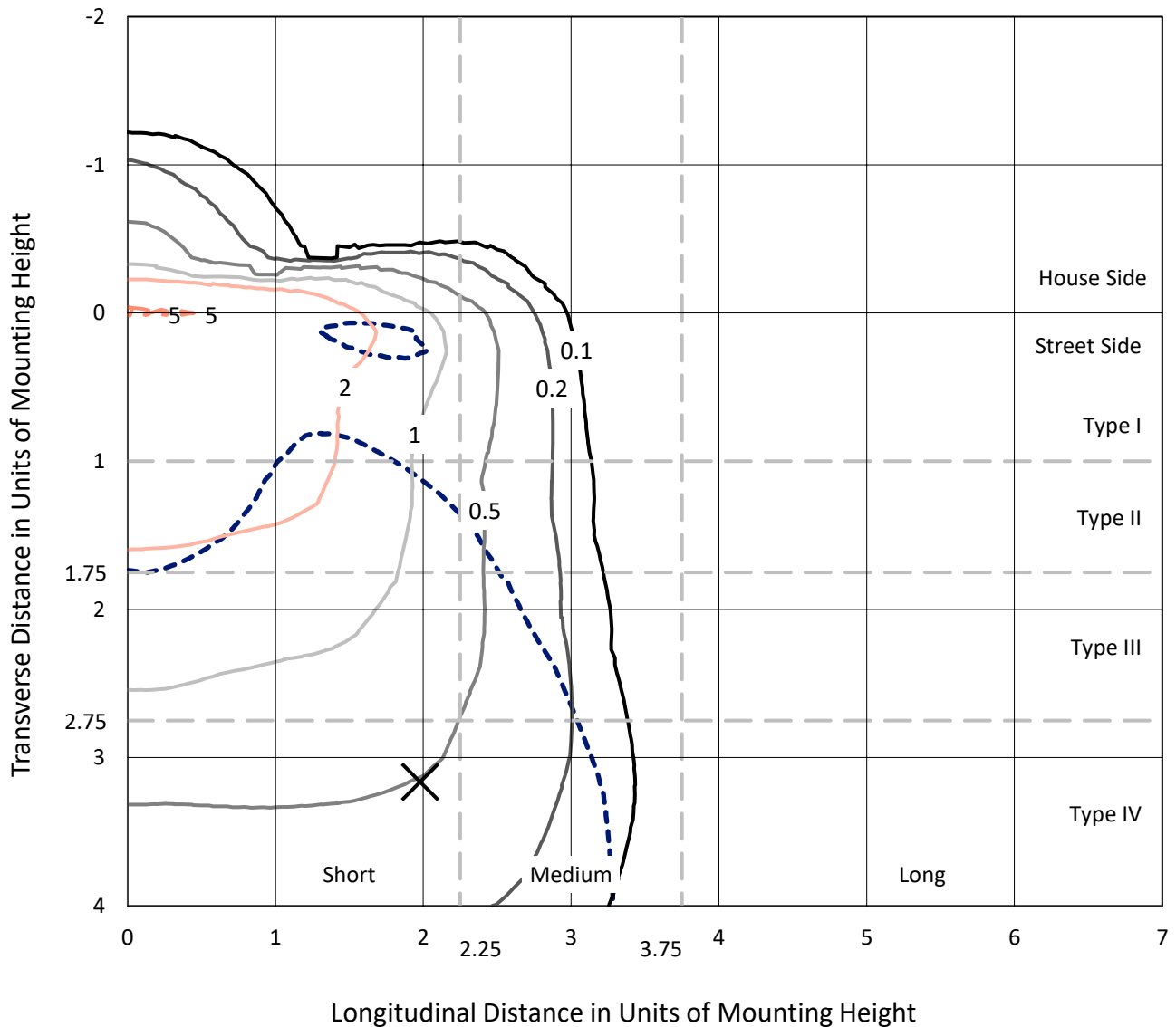
Lumens per Lamp: N/A
Luminaire Lumens: 7231.9 lumens
Efficiency: N/A
Efficacy: 67.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 106.6
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

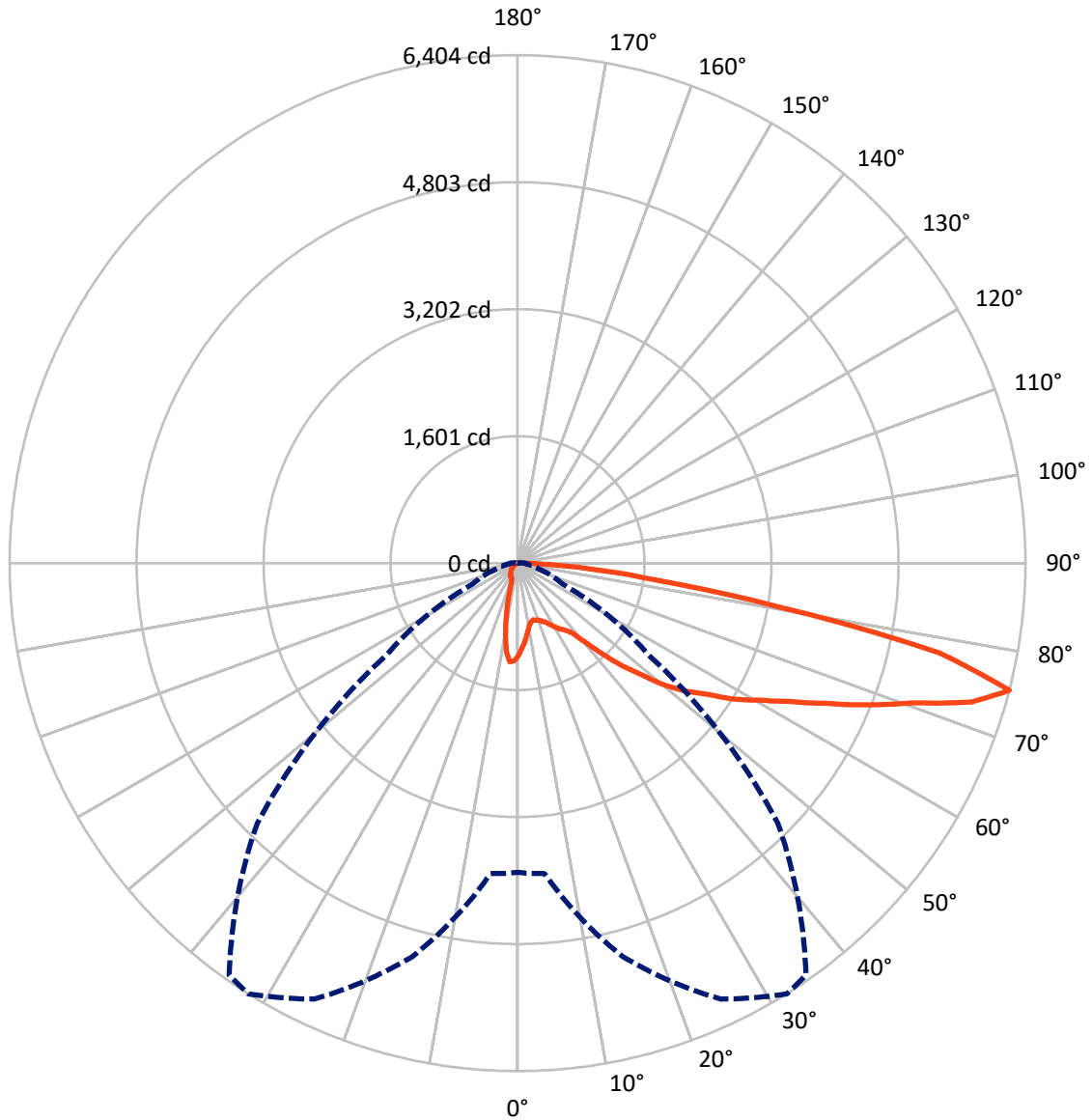
× Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 32-Deg Lateral - - - Horizontal Cone Through 75-Deg Vertical

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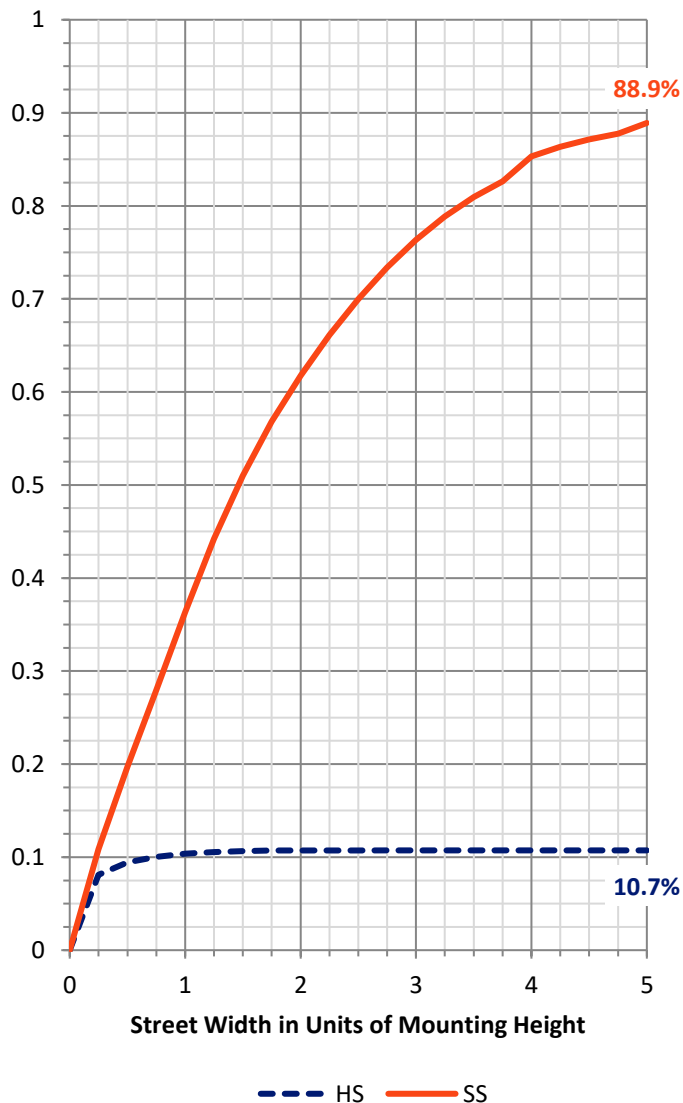
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	781.3	0.0	781.3
	% Fixture	10.8	0.0	10.8
Street Side	Lumens	6450.6	0.0	6450.6
	% Fixture	89.2	0.0	89.2
Total	Lumens	7231.9	0.0	7231.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	102.6	1.4
10°-20°	233.0	3.2
20°-30°	348.8	4.8
30°-40°	535.4	7.4
40°-50°	936.4	12.9
50°-60°	1463.7	20.2
60°-70°	1892.3	26.2
70°-80°	1541.2	21.3
80°-90°	178.4	2.5
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°	7231.9	100.0
0°-180°	7231.9	100.0



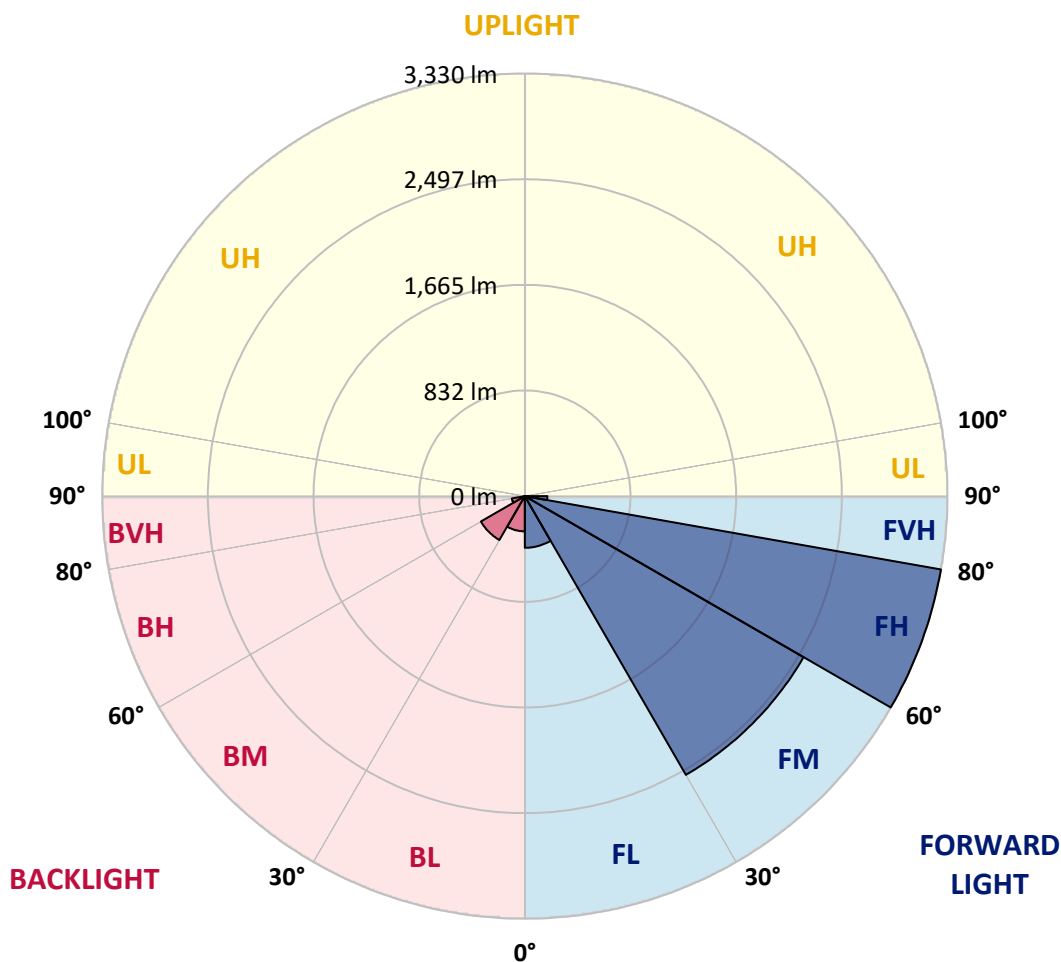
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	406.9	5.6			
FM (30°-60°)	2535.8	35.1			
FH (60°-80°)	3329.6	46.0			G2/5000
FVH (80°-90°)	178.3	2.5			G2/225
BL (0°-30°)	277.5	3.8	B1/500		
BM (30°-60°)	399.7	5.5	B1/1000		
BH (60°-80°)	103.9	1.4	B0/110		G0/110
BVH (80°-90°)	0.1	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 Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	32°	35°	45°	55°	65°	75°	85°
0°	1167.7	1167.7	1167.7	1167.7	1167.7	1167.7	1167.7	1167.7	1167.7	1167.7	1167.7
2.5°	1047.2	1062.1	1060.2	1069.5	1071.3	1076.9	1089.9	1089.9	1126.9	1152.9	1169.6
5°	952.7	943.4	947.2	958.3	986.1	984.2	1015.7	1032.4	1076.9	1114.0	1152.9
7.5°	835.9	834.1	841.5	867.5	887.8	904.5	937.9	980.5	1039.8	1095.4	1164.0
10°	761.8	758.1	772.9	780.3	804.4	815.6	867.5	934.2	1004.6	1084.3	1164.0
12.5°	745.1	732.1	739.6	737.7	759.9	765.5	815.6	897.1	982.4	1080.6	1178.8
15°	754.4	745.1	737.7	737.7	743.3	747.0	800.7	873.0	969.4	1086.2	1212.2
17.5°	784.0	778.5	756.2	734.0	758.1	758.1	791.5	867.5	971.2	1102.8	1253.0
20°	819.3	813.7	774.8	748.8	765.5	784.0	819.3	880.4	976.8	1115.8	1316.0
22.5°	858.2	858.2	804.4	774.8	797.0	798.9	861.9	921.2	999.1	1149.2	1356.8
25°	906.4	902.7	850.8	817.4	824.8	845.2	902.7	965.7	1039.8	1195.5	1432.8
27.5°	969.4	963.8	902.7	869.3	878.6	900.8	965.7	1028.7	1076.9	1214.1	1497.7
30°	1021.3	1015.7	965.7	915.6	936.0	956.4	1032.4	1088.0	1123.2	1249.3	1571.8
32.5°	1032.4	1023.1	989.8	967.5	989.8	1028.7	1088.0	1145.5	1199.2	1338.2	1712.7
35°	1160.3	1126.9	1039.8	1004.6	1038.0	1051.0	1149.2	1251.1	1303.0	1408.7	1870.2
37.5°	1405.0	1373.5	1258.5	1160.3	1114.0	1128.8	1256.7	1382.7	1432.8	1540.3	2042.6
40°	1705.2	1653.3	1531.0	1399.4	1304.9	1286.3	1369.8	1555.1	1603.3	1705.2	2268.7
42.5°	2048.1	1998.1	1809.0	1653.3	1557.0	1532.9	1545.8	1755.3	1796.1	1857.2	2417.0
45°	2294.7	2268.7	2055.6	1916.5	1840.6	1814.6	1783.1	1974.0	2025.9	2046.3	2632.0
47.5°	2437.4	2418.9	2300.2	2205.7	2103.8	2076.0	2096.3	2278.0	2242.8	2259.5	2837.8
50°	2628.3	2580.1	2418.9	2448.5	2428.1	2420.7	2455.9	2535.6	2483.7	2435.5	3062.0
52.5°	2782.1	2696.9	2583.8	2656.1	2687.6	2715.4	2839.6	2898.9	2667.2	2593.1	3206.6
55°	2876.7	2795.1	2824.8	2891.5	2924.9	3052.8	3199.2	3154.7	2787.7	2719.1	3399.4
57.5°	2961.9	2967.5	3047.2	3067.6	3238.1	3260.4	3542.1	3397.5	2873.0	2834.0	3475.4
60°	3167.7	3147.3	3212.2	3343.8	3506.9	3631.1	3899.8	3560.6	2915.6	2893.4	3455.0
62.5°	3538.4	3412.3	3434.6	3601.4	3840.5	3975.8	4105.6	3634.8	2904.5	2902.6	3393.8
65°	4009.2	3864.6	3797.9	3953.6	4263.1	4454.0	4337.3	3718.2	2830.3	2882.2	3165.8
67.5°	4400.3	4402.1	4277.9	4365.1	4769.1	4809.9	4556.0	3701.5	2706.2	2721.0	2609.8
70°	4850.7	4911.8	4802.5	5075.0	5277.0	5302.9	4806.2	3564.3	2439.2	2051.9	1499.5
72.5°	4965.6	4997.1	5338.2	5757.1	5985.0	5992.5	5052.7	3106.5	1605.2	906.4	465.2
75°	3899.8	3929.5	5138.0	6064.7	6403.9	6339.1	4641.2	2016.6	624.6	265.1	111.2
77.5°	2176.0	2185.3	3189.9	4902.6	5432.7	5171.3	3251.1	785.9	252.1	152.0	51.9
80°	595.0	698.8	1182.6	2417.0	3317.8	3256.6	1547.7	255.8	163.1	118.6	24.1
82.5°	142.7	153.8	380.0	1069.5	1753.4	1829.4	461.5	129.7	113.1	98.2	13.0
85°	51.9	57.5	116.8	520.8	900.8	826.7	139.0	64.9	83.4	76.0	5.6
87.5°	18.5	18.5	37.1	170.5	263.2	198.3	46.3	22.2	42.6	46.3	1.9
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°	1167.7	1167.7	1167.7	1167.7	1167.7	1167.7	1167.7	1167.7	1167.7	1167.7	1167.7
2.5°	1171.4	1171.4	1197.4	1219.6	1227.0	1236.3	1227.0	1247.4	1245.6	1236.3	1240.0
5°	1173.3	1206.6	1228.9	1243.7	1251.1	1249.3	1253.0	1230.7	1217.8	1208.5	1199.2
7.5°	1182.6	1214.1	1254.8	1251.1	1230.7	1188.1	1154.7	1095.4	1038.0	1036.1	1026.9
10°	1214.1	1241.9	1266.0	1251.1	1177.0	1047.2	941.6	861.9	789.6	756.2	759.9
12.5°	1236.3	1288.2	1277.1	1201.1	1047.2	876.7	721.0	604.3	539.4	478.2	478.2
15°	1282.6	1301.2	1297.5	1128.8	887.8	684.0	494.9	376.3	307.7	279.9	276.2
17.5°	1327.1	1347.5	1284.5	1019.4	730.3	459.7	300.3	233.5	224.3	220.6	222.4
20°	1382.7	1384.6	1273.4	910.1	548.6	291.0	215.0	209.4	211.3	209.4	209.4
22.5°	1442.0	1455.0	1234.4	756.2	365.1	211.3	200.2	202.0	202.0	202.0	207.6
25°	1519.9	1499.5	1173.3	609.8	239.1	194.6	194.6	196.5	196.5	196.5	198.3
27.5°	1571.8	1544.0	1095.4	439.3	187.2	183.5	187.2	187.2	190.9	190.9	190.9
30°	1679.3	1607.0	997.2	283.6	168.7	174.2	177.9	181.6	183.5	187.2	189.1
32.5°	1762.7	1662.6	874.9	189.1	153.8	157.5	166.8	174.2	181.6	179.8	179.8
35°	1914.7	1753.4	761.8	150.1	140.9	140.9	150.1	163.1	174.2	177.9	177.9
37.5°	2088.9	1827.6	604.3	137.2	129.7	129.7	135.3	150.1	165.0	172.4	168.7
40°	2233.5	1912.8	446.7	127.9	120.5	120.5	124.2	135.3	152.0	165.0	166.8
42.5°	2335.4	1975.9	302.1	118.6	113.1	111.2	116.8	122.3	135.3	153.8	157.5
45°	2428.1	2009.2	187.2	109.4	105.7	105.7	105.7	111.2	120.5	137.2	140.9
47.5°	2593.1	2046.3	135.3	101.9	96.4	98.2	100.1	101.9	109.4	113.1	114.9
50°	2732.1	2074.1	111.2	94.5	90.8	92.7	92.7	92.7	96.4	90.8	90.8
52.5°	2837.8	2046.3	94.5	87.1	83.4	85.3	83.4	83.4	79.7	72.3	72.3
55°	2915.6	1996.2	76.0	79.7	79.7	79.7	76.0	70.4	63.0	57.5	57.5
57.5°	2936.0	1911.0	59.3	66.7	72.3	72.3	64.9	57.5	48.2	42.6	40.8
60°	2904.5	1725.6	44.5	48.2	55.6	57.5	51.9	42.6	33.4	27.8	27.8
62.5°	2791.4	1579.2	35.2	31.5	40.8	42.6	37.1	27.8	18.5	13.0	11.1
65°	2576.4	1353.1	25.9	22.2	27.8	29.7	24.1	13.0	5.6	1.9	0.0
67.5°	2066.7	1019.4	16.7	14.8	18.5	18.5	11.1	3.7	0.0	0.0	0.0
70°	1143.6	572.7	11.1	7.4	9.3	5.6	1.9	0.0	0.0	0.0	0.0
72.5°	329.9	163.1	5.6	3.7	1.9	0.0	0.0	0.0	0.0	0.0	0.0
75°	89.0	38.9	3.7	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	38.9	14.8	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	16.7	5.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	9.3	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	3.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.9	0.0	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)