

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: P676616

Luminaire Tested: **CCW-SA-2E-830-U-T4FT-HSS**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P676616
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-2E-830-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) 3000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

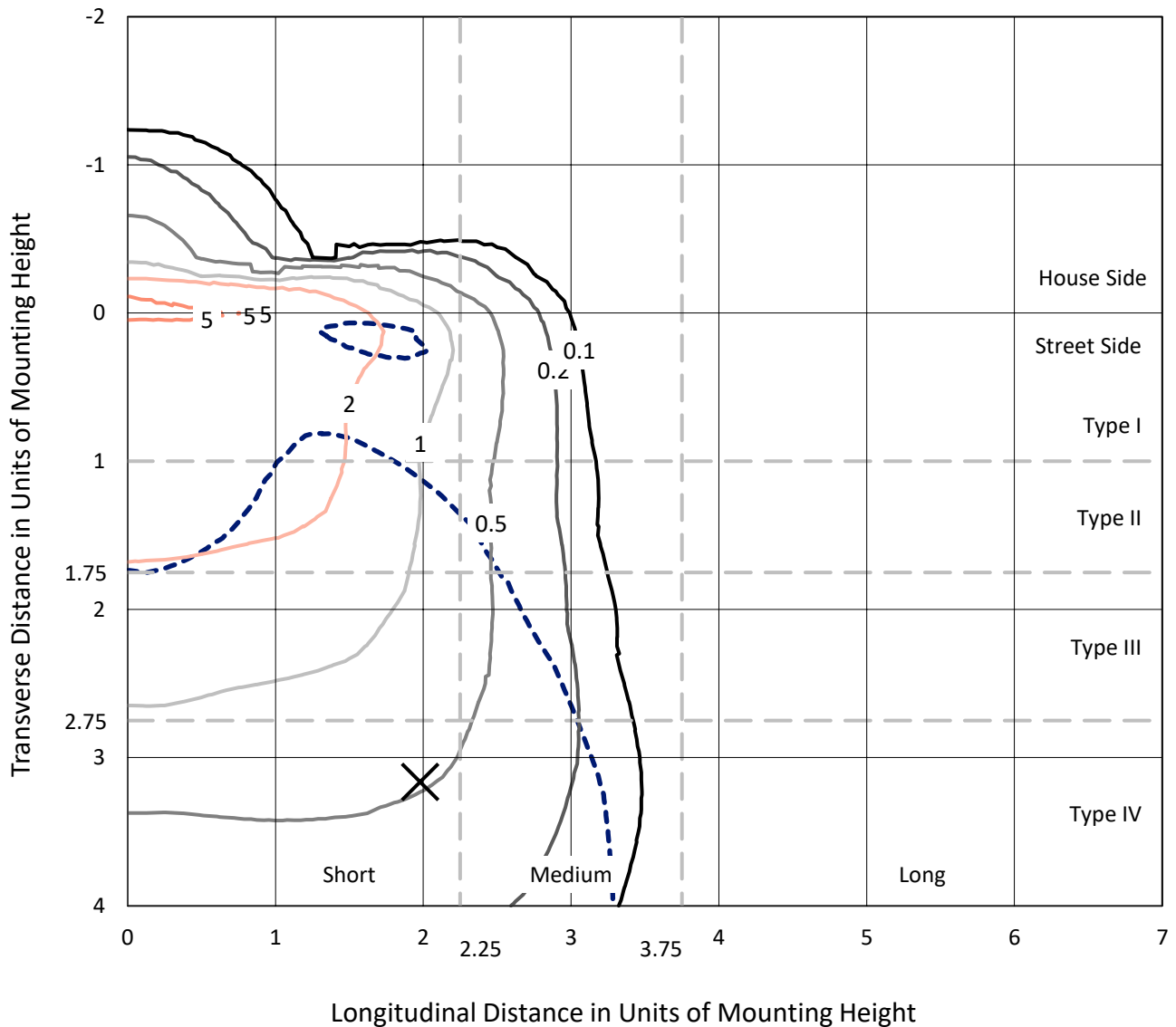
Lumens per Lamp: N/A
Luminaire Lumens: 7801.3 lumens
Efficiency: N/A
Efficacy: 73.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

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

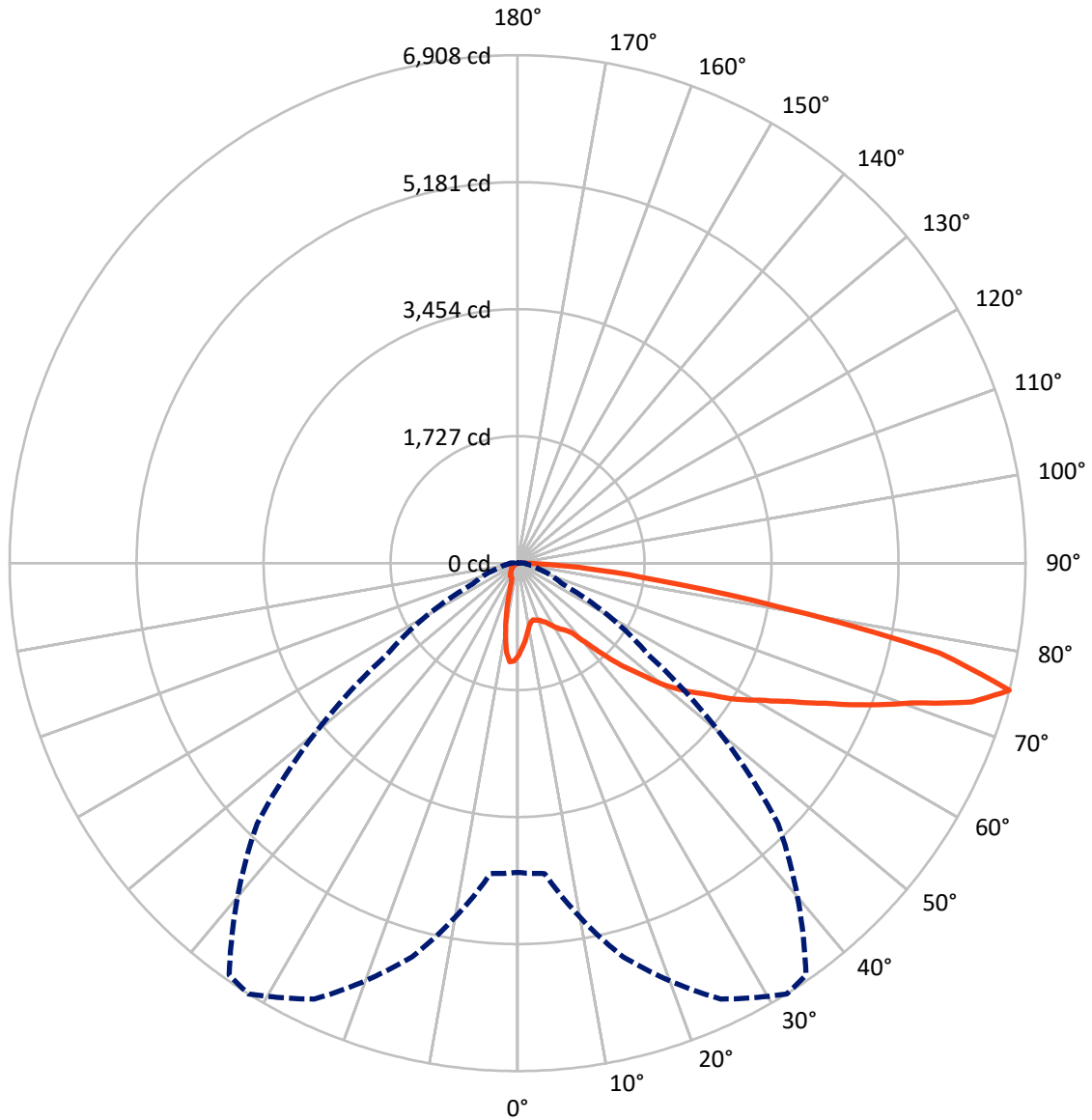
× Max cd
 - - - 1/2 Max cd



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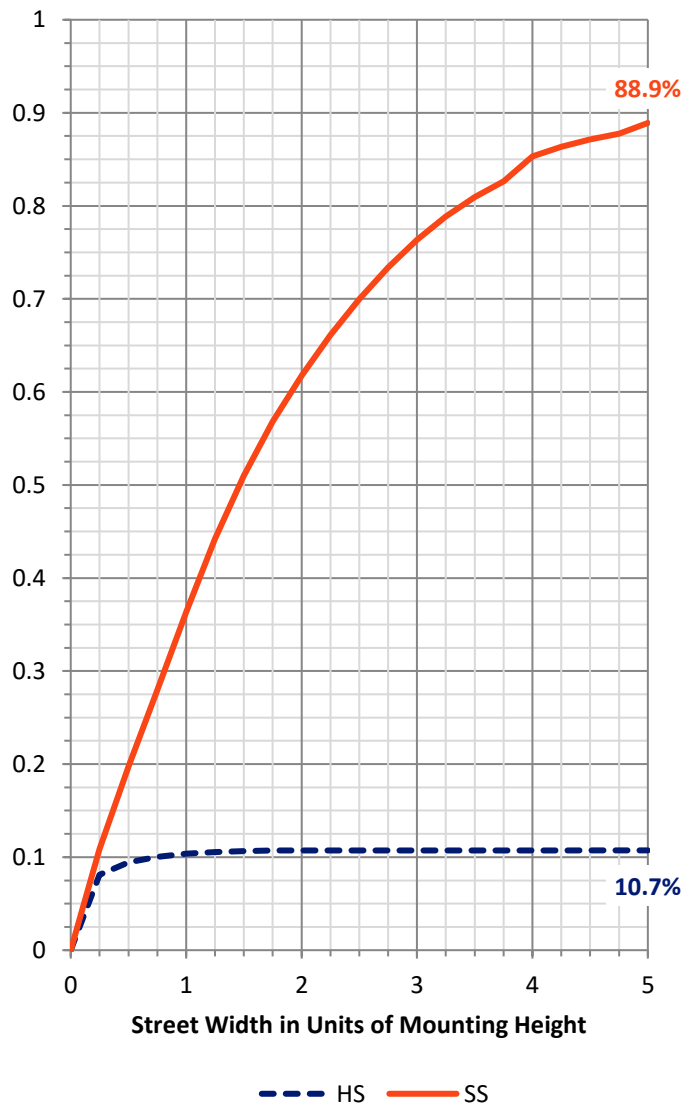
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	842.8	0.0	842.8
	% Fixture	10.8	0.0	10.8
Street Side	Lumens	6958.5	0.0	6958.5
	% Fixture	89.2	0.0	89.2
Total	Lumens	7801.3	0.0	7801.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	110.7	1.4
10°-20°	251.3	3.2
20°-30°	376.3	4.8
30°-40°	577.6	7.4
40°-50°	1010.1	12.9
50°-60°	1578.9	20.2
60°-70°	2041.3	26.2
70°-80°	1662.6	21.3
80°-90°	192.5	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°	7801.3	100.0
0°-180°	7801.3	100.0



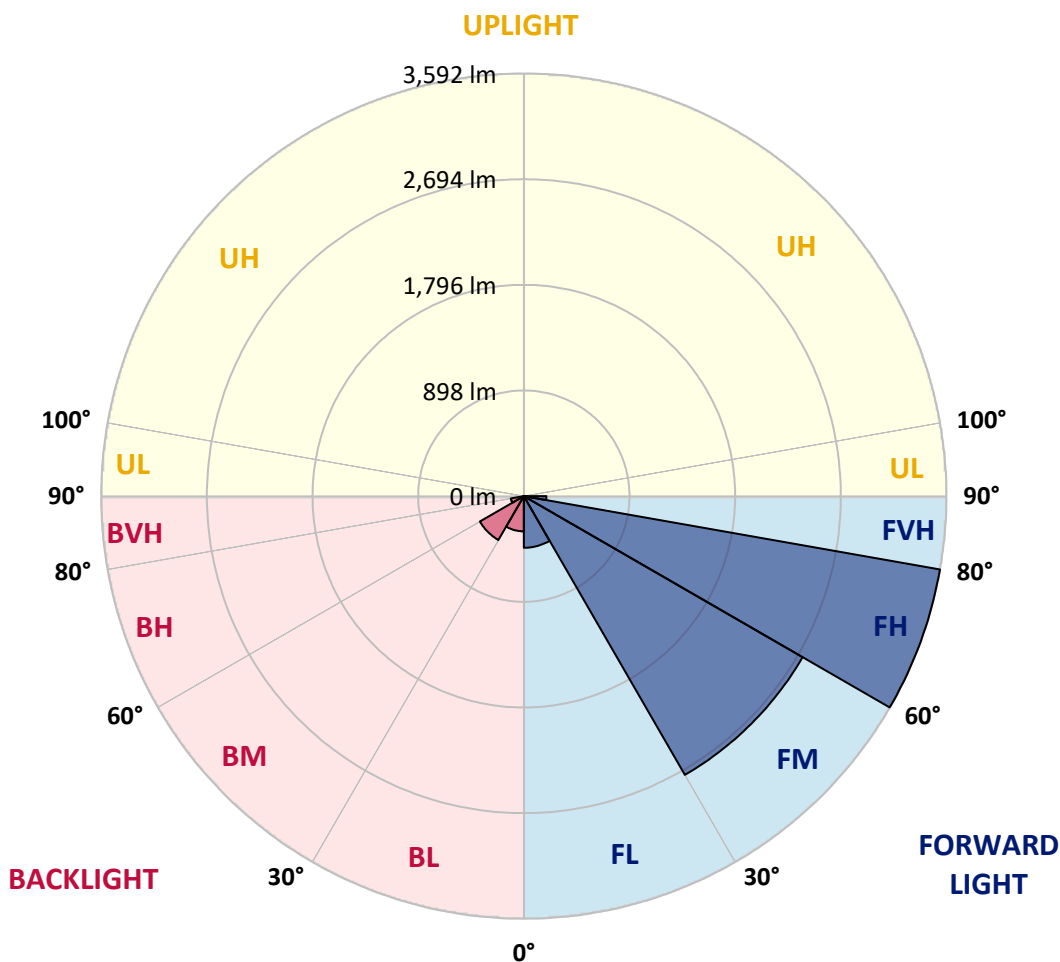
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	438.9	5.6			
FM (30°-60°)	2735.5	35.1			
FH (60°-80°)	3591.8	46.0			G2/5000
FVH (80°-90°)	192.3	2.5			G2/225
BL (0°-30°)	299.4	3.8	B1/500		
BM (30°-60°)	431.2	5.5	B1/1000		
BH (60°-80°)	112.1	1.4	B1/500		G1/500
BVH (80°-90°)	0.2	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°	1259.7	1259.7	1259.7	1259.7	1259.7	1259.7	1259.7	1259.7	1259.7	1259.7	1259.7
2.5°	1129.7	1145.7	1143.7	1153.7	1155.7	1161.7	1175.7	1175.7	1215.7	1243.7	1261.7
5°	1027.7	1017.7	1021.7	1033.7	1063.7	1061.7	1095.7	1113.7	1161.7	1201.7	1243.7
7.5°	901.8	899.8	907.8	935.8	957.7	975.7	1011.7	1057.7	1121.7	1181.7	1255.7
10°	821.8	817.8	833.8	841.8	867.8	879.8	935.8	1007.7	1083.7	1169.7	1255.7
12.5°	803.8	789.8	797.8	795.8	819.8	825.8	879.8	967.7	1059.7	1165.7	1271.7
15°	813.8	803.8	795.8	795.8	801.8	805.8	863.8	941.8	1045.7	1171.7	1307.7
17.5°	845.8	839.8	815.8	791.8	817.8	817.8	853.8	935.8	1047.7	1189.7	1351.6
20°	883.8	877.8	835.8	807.8	825.8	845.8	883.8	949.8	1053.7	1203.7	1419.6
22.5°	925.8	925.8	867.8	835.8	859.8	861.8	929.8	993.7	1077.7	1239.7	1463.6
25°	977.7	973.7	917.8	881.8	889.8	911.8	973.7	1041.7	1121.7	1289.7	1545.6
27.5°	1045.7	1039.7	973.7	937.8	947.8	971.7	1041.7	1109.7	1161.7	1309.7	1615.6
30°	1101.7	1095.7	1041.7	987.7	1009.7	1031.7	1113.7	1173.7	1211.7	1347.6	1695.6
32.5°	1113.7	1103.7	1067.7	1043.7	1067.7	1109.7	1173.7	1235.7	1293.7	1443.6	1847.5
35°	1251.7	1215.7	1121.7	1083.7	1119.7	1133.7	1239.7	1349.6	1405.6	1519.6	2017.5
37.5°	1515.6	1481.6	1357.6	1251.7	1201.7	1217.7	1355.6	1491.6	1545.6	1661.6	2203.4
40°	1839.5	1783.5	1651.6	1509.6	1407.6	1387.6	1477.6	1677.6	1729.5	1839.5	2447.4
42.5°	2209.4	2155.4	1951.5	1783.5	1679.6	1653.6	1667.6	1893.5	1937.5	2003.5	2607.3
45°	2475.4	2447.4	2217.4	2067.5	1985.5	1957.5	1923.5	2129.4	2185.4	2207.4	2839.3
47.5°	2629.3	2609.3	2481.3	2379.4	2269.4	2239.4	2261.4	2457.4	2419.4	2437.4	3061.2
50°	2835.3	2783.3	2609.3	2641.3	2619.3	2611.3	2649.3	2735.3	2679.3	2627.3	3303.1
52.5°	3001.2	2909.2	2787.3	2865.2	2899.2	2929.2	3063.2	3127.2	2877.2	2797.3	3459.1
55°	3103.2	3015.2	3047.2	3119.2	3155.2	3293.1	3451.1	3403.1	3007.2	2933.2	3667.0
57.5°	3195.2	3201.2	3287.1	3309.1	3493.1	3517.1	3821.0	3665.0	3099.2	3057.2	3749.0
60°	3417.1	3395.1	3465.1	3607.1	3783.0	3917.0	4206.9	3841.0	3145.2	3121.2	3727.0
62.5°	3817.0	3681.0	3705.0	3885.0	4142.9	4288.9	4428.8	3921.0	3133.2	3131.2	3661.0
65°	4324.9	4168.9	4096.9	4264.9	4598.8	4804.7	4678.8	4010.9	3053.2	3109.2	3415.1
67.5°	4746.8	4748.8	4614.8	4708.8	5144.6	5188.6	4914.7	3993.0	2919.2	2935.2	2815.3
70°	5232.6	5298.6	5180.6	5474.6	5692.5	5720.5	5184.6	3845.0	2631.3	2213.4	1617.6
72.5°	5356.6	5390.6	5758.5	6210.4	6456.3	6464.3	5450.6	3351.1	1731.5	977.7	501.9
75°	4206.9	4238.9	5542.5	6542.3	6908.2	6838.2	5006.7	2175.4	673.8	285.9	120.0
77.5°	2347.4	2357.4	3441.1	5288.6	5860.5	5578.5	3507.1	847.8	271.9	164.0	56.0
80°	641.8	753.8	1275.7	2607.3	3579.1	3513.1	1669.6	275.9	176.0	128.0	26.0
82.5°	154.0	166.0	409.9	1153.7	1891.5	1973.5	497.9	140.0	122.0	106.0	14.0
85°	56.0	62.0	126.0	561.9	971.7	891.8	150.0	70.0	90.0	82.0	6.0
87.5°	20.0	20.0	40.0	184.0	283.9	213.9	50.0	24.0	46.0	50.0	2.0
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°	1259.7	1259.7	1259.7	1259.7	1259.7	1259.7	1259.7	1259.7	1259.7	1259.7	1259.7
2.5°	1263.7	1263.7	1291.7	1315.7	1323.7	1333.6	1323.7	1345.6	1343.6	1333.6	1337.6
5°	1265.7	1301.7	1325.7	1341.6	1349.6	1347.6	1351.6	1327.7	1313.7	1303.7	1293.7
7.5°	1275.7	1309.7	1353.6	1349.6	1327.7	1281.7	1245.7	1181.7	1119.7	1117.7	1107.7
10°	1309.7	1339.6	1365.6	1349.6	1269.7	1129.7	1015.7	929.8	851.8	815.8	819.8
12.5°	1333.6	1389.6	1377.6	1295.7	1129.7	945.8	777.8	651.8	581.8	515.9	515.9
15°	1383.6	1403.6	1399.6	1217.7	957.7	737.8	533.9	405.9	331.9	301.9	297.9
17.5°	1431.6	1453.6	1385.6	1099.7	787.8	495.9	323.9	251.9	241.9	237.9	239.9
20°	1491.6	1493.6	1373.6	981.7	591.8	313.9	231.9	225.9	227.9	225.9	225.9
22.5°	1555.6	1569.6	1331.7	815.8	393.9	227.9	215.9	217.9	217.9	217.9	223.9
25°	1639.6	1617.6	1265.7	657.8	257.9	209.9	209.9	211.9	211.9	211.9	213.9
27.5°	1695.6	1665.6	1181.7	473.9	201.9	197.9	201.9	201.9	205.9	205.9	205.9
30°	1811.5	1733.5	1075.7	305.9	182.0	188.0	191.9	195.9	197.9	201.9	203.9
32.5°	1901.5	1793.5	943.8	203.9	166.0	170.0	180.0	188.0	195.9	193.9	193.9
35°	2065.5	1891.5	821.8	162.0	152.0	152.0	162.0	176.0	188.0	191.9	191.9
37.5°	2253.4	1971.5	651.8	148.0	140.0	140.0	146.0	162.0	178.0	186.0	182.0
40°	2409.4	2063.5	481.9	138.0	130.0	130.0	134.0	146.0	164.0	178.0	180.0
42.5°	2519.3	2131.4	325.9	128.0	122.0	120.0	126.0	132.0	146.0	166.0	170.0
45°	2619.3	2167.4	201.9	118.0	114.0	114.0	114.0	120.0	130.0	148.0	152.0
47.5°	2797.3	2207.4	146.0	110.0	104.0	106.0	108.0	110.0	118.0	122.0	124.0
50°	2947.2	2237.4	120.0	102.0	98.0	100.0	100.0	100.0	104.0	98.0	98.0
52.5°	3061.2	2207.4	102.0	94.0	90.0	92.0	90.0	90.0	86.0	78.0	78.0
55°	3145.2	2153.4	82.0	86.0	86.0	86.0	82.0	76.0	68.0	62.0	62.0
57.5°	3167.2	2061.5	64.0	72.0	78.0	78.0	70.0	62.0	52.0	46.0	44.0
60°	3133.2	1861.5	48.0	52.0	60.0	62.0	56.0	46.0	36.0	30.0	30.0
62.5°	3011.2	1703.6	38.0	34.0	44.0	46.0	40.0	30.0	20.0	14.0	12.0
65°	2779.3	1459.6	28.0	24.0	30.0	32.0	26.0	14.0	6.0	2.0	0.0
67.5°	2229.4	1099.7	18.0	16.0	20.0	20.0	12.0	4.0	0.0	0.0	0.0
70°	1233.7	617.8	12.0	8.0	10.0	6.0	2.0	0.0	0.0	0.0	0.0
72.5°	355.9	176.0	6.0	4.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	96.0	42.0	4.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	42.0	16.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	18.0	6.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	10.0	2.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	4.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.0	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)