

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: P676737

Luminaire Tested: **CCW-SA-2D-760-U-T4W-HSS**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P676737
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-2D-760-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) 5700K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

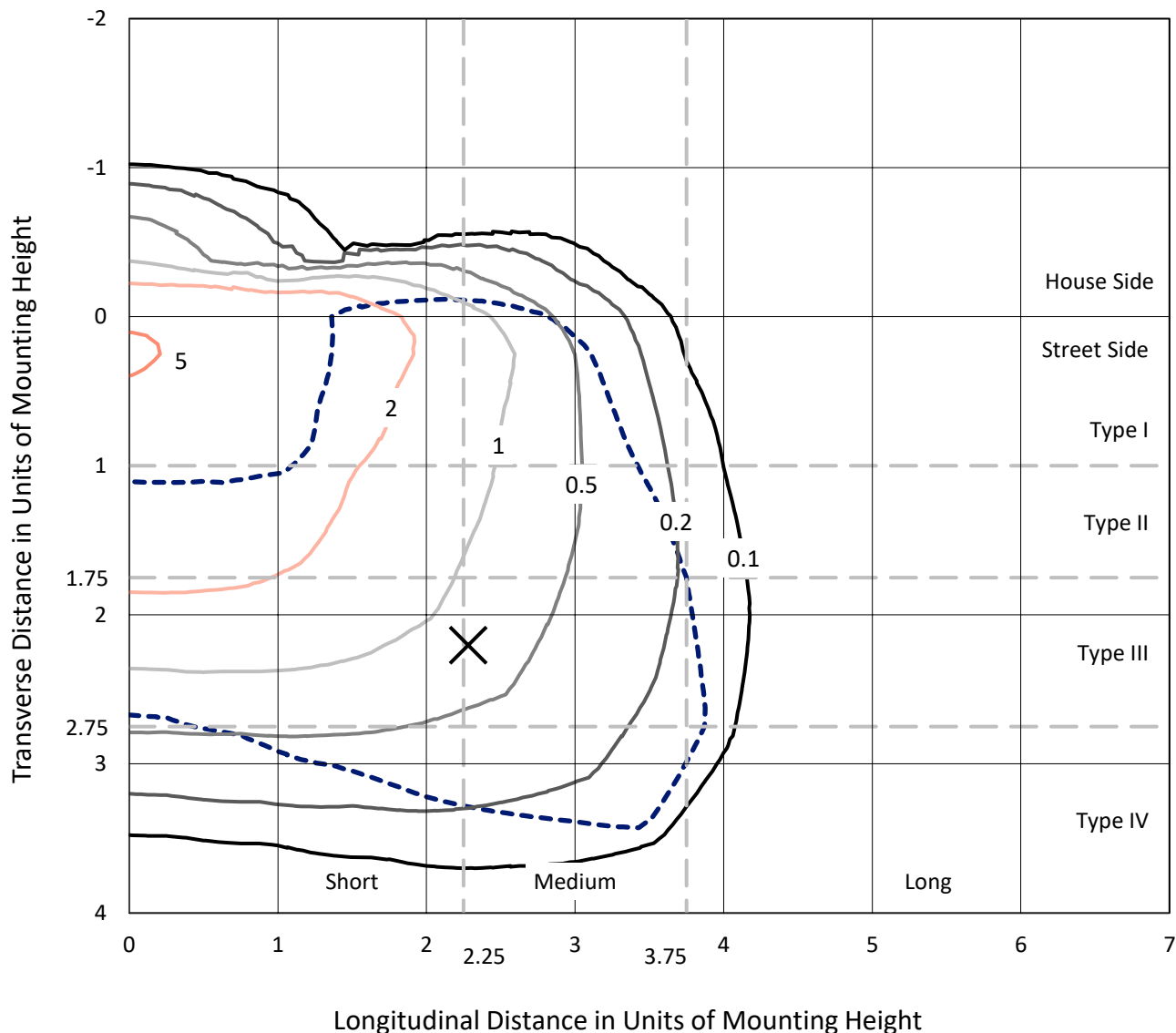
Lumens per Lamp: N/A
Luminaire Lumens: 8230.8 lumens
Efficiency: N/A
Efficacy: 101.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B1 - U0 - G2

Input Watts (W): 80.8
Input Voltage (V): 120
Input Current (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

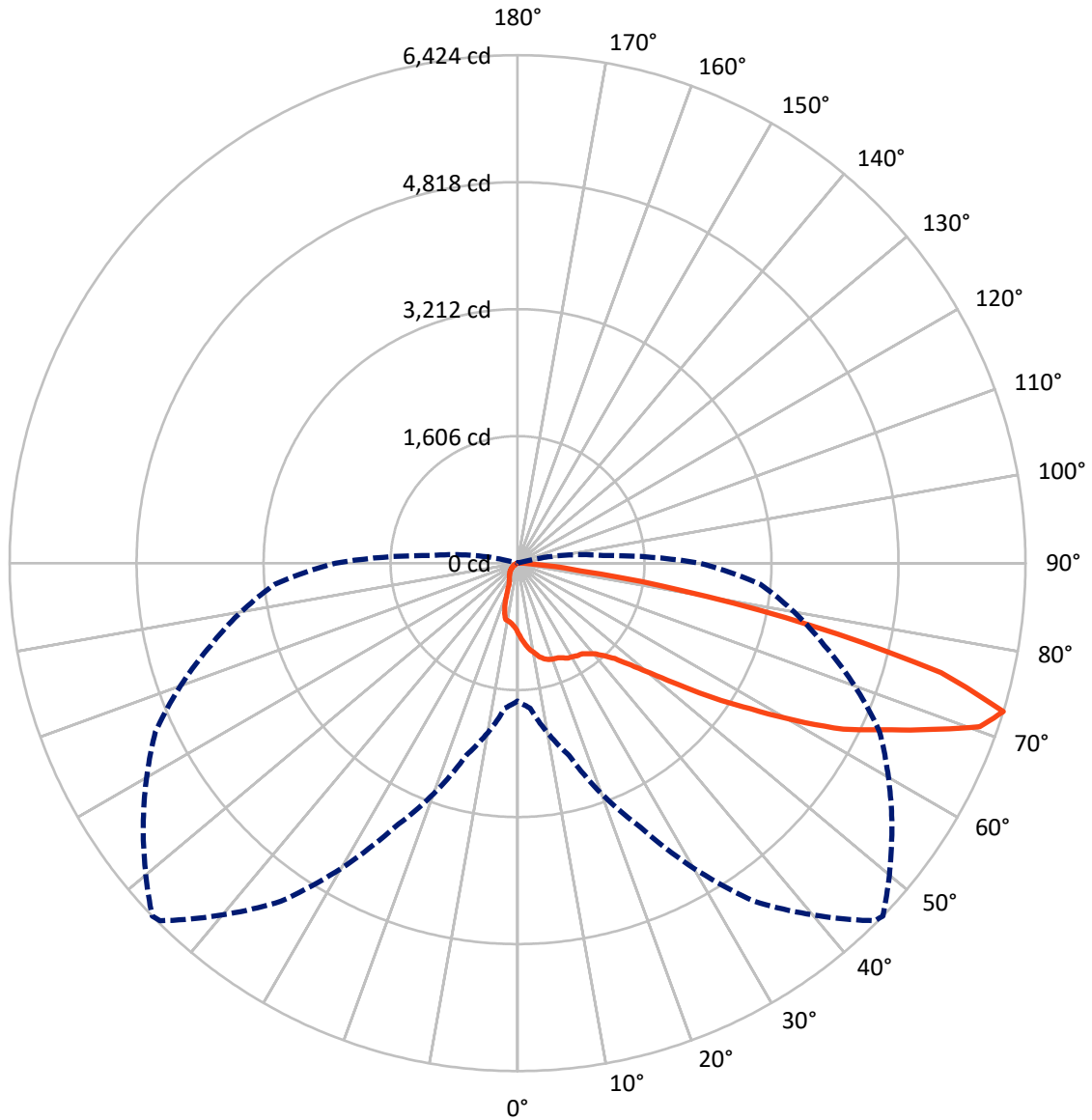
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 5.7 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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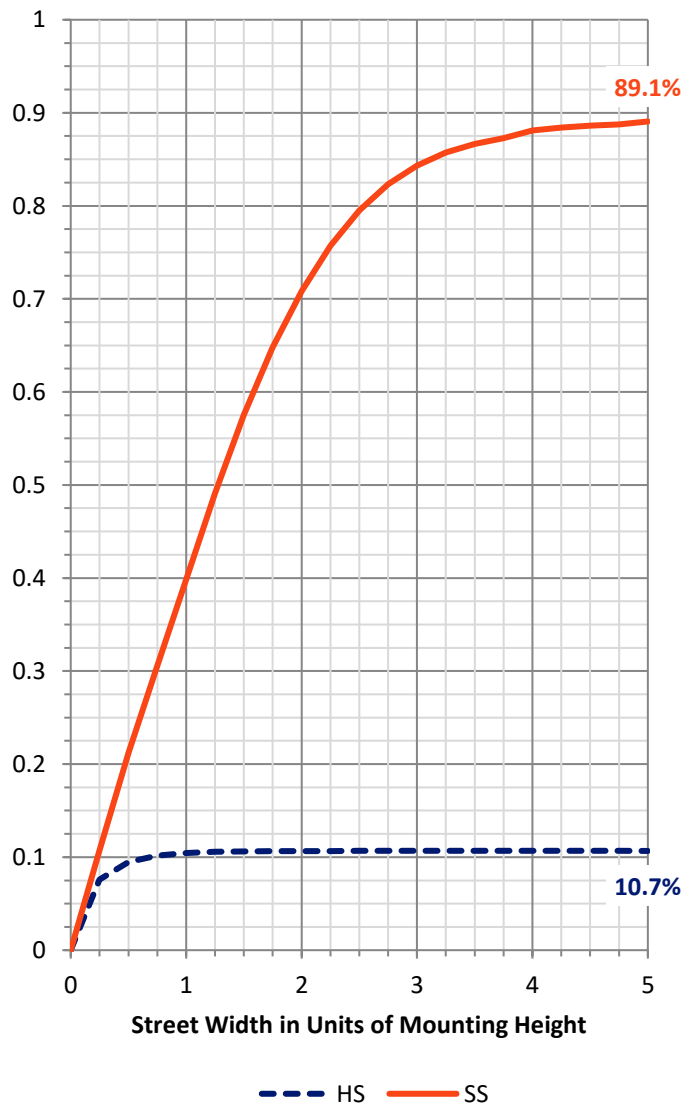
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	886.1	0.0	886.1
	% Fixture	10.8	0.0	10.8
Street Side	Lumens	7344.6	0.0	7344.6
	% Fixture	89.2	0.0	89.2
Total	Lumens	8230.8	0.0	8230.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	88.1	1.1
10°-20°	265.8	3.2
20°-30°	416.1	5.1
30°-40°	582.8	7.1
40°-50°	961.0	11.7
50°-60°	1727.3	21.0
60°-70°	2503.5	30.4
70°-80°	1562.4	19.0
80°-90°	123.9	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°	8230.8	100.0
0°-180°	8230.8	100.0

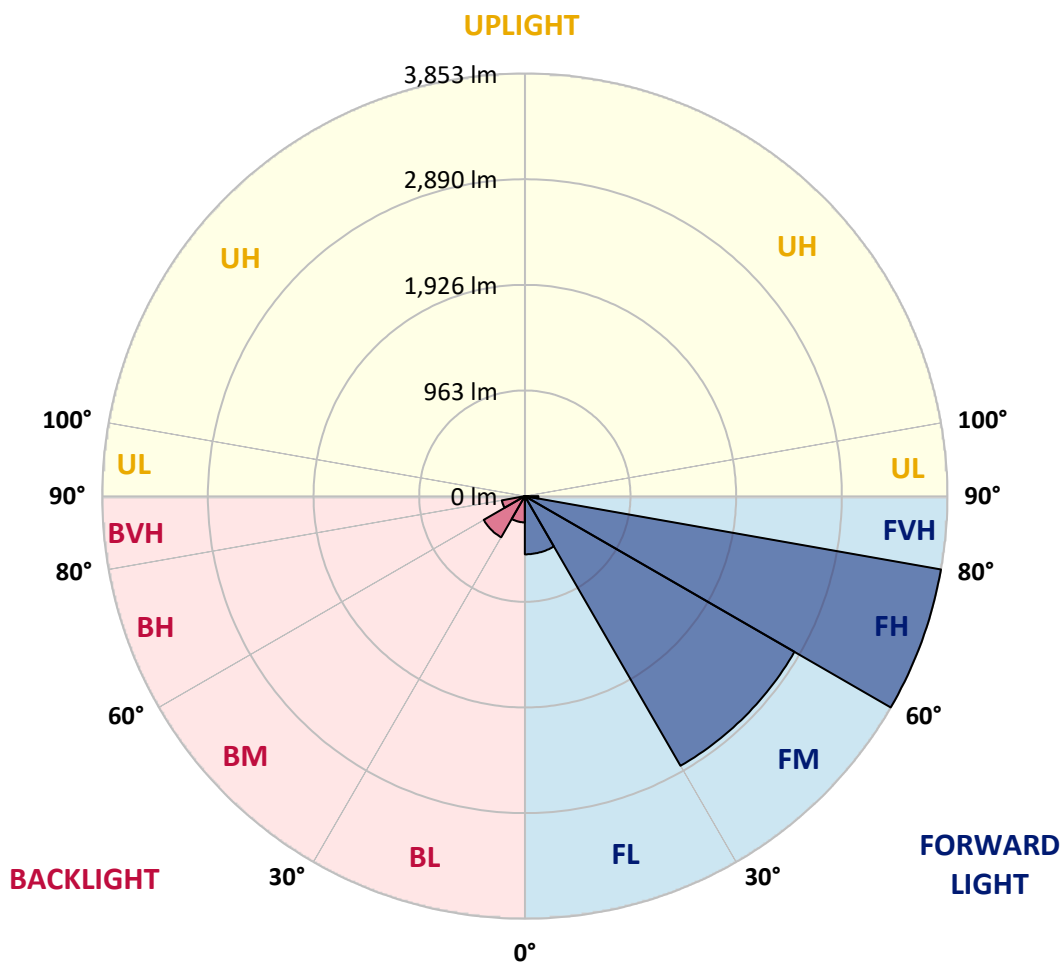


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	530.5	6.4			
FM (30°-60°)	2838.1	34.5			
FH (60°-80°)	3852.8	46.8			G2/5000
FVH (80°-90°)	123.2	1.5			G2/225
BL (0°-30°)	239.5	2.9	B1/500		
BM (30°-60°)	432.9	5.3	B1/1000		
BH (60°-80°)	213.1	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°	879.7	879.7	879.7	879.7	879.7	879.7	879.7	879.7	879.7	879.7	879.7
2.5°	984.6	980.4	986.7	984.6	959.4	963.6	961.5	944.8	915.4	898.6	888.1
5°	1098.0	1108.5	1100.1	1081.2	1066.5	1037.1	1032.9	1005.6	959.4	930.1	898.6
7.5°	1215.6	1215.6	1198.8	1169.4	1137.9	1106.4	1102.2	1056.0	1016.1	965.7	921.7
10°	1303.8	1293.3	1280.7	1249.2	1213.5	1171.5	1150.5	1116.9	1072.8	1011.9	955.2
12.5°	1381.4	1364.6	1343.6	1297.5	1255.5	1209.3	1213.5	1158.9	1129.5	1074.9	990.9
15°	1425.5	1410.8	1391.9	1349.9	1284.9	1263.9	1255.5	1221.9	1169.4	1114.8	1035.0
17.5°	1436.0	1425.5	1400.3	1345.7	1310.1	1284.9	1282.8	1242.9	1219.8	1173.6	1085.4
20°	1415.0	1396.1	1377.2	1341.5	1308.0	1299.6	1293.3	1293.3	1263.9	1203.0	1116.9
22.5°	1379.3	1358.3	1347.8	1326.9	1299.6	1297.5	1301.7	1297.5	1274.4	1234.5	1150.5
25°	1352.0	1341.5	1324.8	1318.5	1301.7	1333.2	1326.9	1320.6	1314.3	1268.1	1203.0
27.5°	1360.4	1358.3	1345.7	1320.6	1308.0	1341.5	1360.4	1362.5	1360.4	1314.3	1251.3
30°	1364.6	1354.1	1341.5	1335.3	1339.4	1373.0	1373.0	1419.2	1400.3	1354.1	1299.6
32.5°	1412.9	1406.6	1364.6	1349.9	1352.0	1391.9	1394.0	1440.2	1433.9	1402.4	1341.5
35°	1515.8	1473.8	1412.9	1370.9	1370.9	1423.4	1406.6	1473.8	1490.6	1440.2	1370.9
37.5°	1669.1	1637.6	1528.4	1433.9	1398.2	1436.0	1452.8	1490.6	1541.0	1496.9	1429.7
40°	1973.5	1967.2	1811.8	1608.2	1467.5	1501.1	1507.4	1566.2	1599.8	1538.9	1520.0
42.5°	2418.6	2387.1	2242.2	1921.0	1593.5	1578.8	1601.9	1639.7	1719.4	1669.1	1622.9
45°	2853.2	2838.5	2693.6	2334.6	1822.3	1734.1	1721.5	1788.7	1906.3	1851.7	1816.0
47.5°	3168.1	3138.7	3056.8	2754.5	2158.2	1916.8	1925.2	1992.4	2141.4	2099.5	2109.9
50°	3409.5	3394.8	3308.7	3142.9	2582.3	2204.4	2187.6	2254.8	2456.4	2483.6	2513.0
52.5°	3674.0	3701.3	3585.9	3445.2	3084.1	2590.7	2552.9	2576.0	2836.4	2899.3	2981.2
55°	3928.1	3972.2	3856.7	3837.8	3609.0	3019.0	3012.7	2958.1	3294.0	3302.4	3346.5
57.5°	4093.9	4079.2	4070.8	4173.7	4133.8	3510.3	3478.8	3424.2	3728.6	3674.0	3806.3
60°	4106.5	4148.5	4289.2	4543.2	4614.6	4087.6	4041.4	3892.4	4104.4	3974.3	4226.2
62.5°	4201.0	4234.6	4494.9	4845.5	4937.9	4595.7	4627.2	4249.3	4425.6	4322.8	4692.3
65°	3961.7	4066.6	4589.4	5080.7	5362.0	5110.1	5078.6	4709.1	4755.3	4658.7	5152.1
67.5°	3745.4	3785.3	4331.2	5152.1	5697.9	5626.5	5613.9	5116.4	5095.4	4916.9	5282.2
70°	3044.2	3092.5	3632.0	4786.7	5811.3	6229.1	6199.7	5687.4	5326.3	4776.2	4614.6
72.5°	1744.6	1841.2	2517.2	3686.6	5221.3	6397.0	6424.3	5779.8	5053.4	4016.2	3082.0
75°	571.1	598.3	1045.5	2089.0	3905.0	5580.3	5532.1	4967.3	4077.1	2651.6	1391.9
77.5°	193.1	197.3	308.6	755.8	2164.5	3770.6	3797.9	3550.2	2504.6	1102.2	384.2
80°	98.7	105.0	151.2	283.4	890.2	2053.3	2097.4	2023.9	1049.7	325.4	92.4
82.5°	46.2	48.3	88.2	157.5	407.3	806.2	806.2	886.0	371.6	182.7	37.8
85°	16.8	16.8	46.2	90.3	172.2	268.7	270.8	272.9	195.2	136.5	16.8
87.5°	6.3	6.3	23.1	37.8	63.0	81.9	81.9	65.1	98.7	90.3	6.3
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°	879.7	879.7	879.7	879.7	879.7	879.7	879.7	879.7	879.7	879.7	879.7
2.5°	883.9	871.3	860.8	846.1	827.2	816.7	818.8	806.2	806.2	799.9	797.8
5°	883.9	871.3	844.0	818.8	802.0	781.0	770.5	762.1	762.1	757.9	760.0
7.5°	890.2	871.3	833.5	799.9	772.6	751.6	734.8	732.7	728.5	718.0	726.4
10°	928.0	900.7	837.7	791.5	760.0	736.9	707.5	699.1	686.5	667.6	669.7
12.5°	959.4	923.8	867.1	804.1	764.2	726.4	659.2	585.7	554.3	520.7	522.8
15°	1005.6	955.2	877.6	820.9	764.2	642.4	520.7	426.2	375.8	350.6	350.6
17.5°	1030.8	988.8	907.0	831.4	703.3	522.8	369.5	287.6	279.2	283.4	283.4
20°	1083.3	1026.6	940.6	839.8	602.5	371.6	270.8	262.4	266.6	275.0	272.9
22.5°	1116.9	1060.2	965.7	802.0	466.1	266.6	254.0	249.8	254.0	264.5	264.5
25°	1144.2	1108.5	1005.6	709.6	329.6	241.4	237.2	241.4	245.6	249.8	256.1
27.5°	1211.4	1150.5	1032.9	589.9	237.2	224.6	228.8	230.9	230.9	237.2	239.3
30°	1255.5	1207.2	1053.9	455.6	209.9	207.8	212.0	214.1	216.2	222.5	224.6
32.5°	1297.5	1280.7	1026.6	308.6	197.3	193.1	191.0	193.1	201.5	207.8	205.7
35°	1358.3	1347.8	986.7	214.1	184.8	176.4	172.2	174.3	180.6	186.9	184.8
37.5°	1431.8	1442.3	890.2	186.9	172.2	161.7	153.3	153.3	155.4	161.7	163.8
40°	1517.9	1545.2	776.8	174.3	163.8	151.2	142.8	132.3	130.2	128.1	130.2
42.5°	1675.4	1706.9	648.7	165.9	151.2	136.5	123.9	111.3	100.8	94.5	94.5
45°	1895.8	1870.6	480.8	157.5	144.9	123.9	105.0	90.3	75.6	69.3	69.3
47.5°	2200.2	2114.1	329.6	149.1	134.4	109.2	88.2	69.3	56.7	50.4	50.4
50°	2622.2	2338.8	214.1	140.7	128.1	94.5	71.4	50.4	42.0	39.9	42.0
52.5°	3021.1	2567.6	170.1	130.2	115.5	81.9	54.6	42.0	37.8	35.7	35.7
55°	3388.5	2683.1	151.2	119.7	105.0	67.2	46.2	35.7	33.6	31.5	31.5
57.5°	3699.2	2723.0	130.2	105.0	84.0	52.5	37.8	31.5	27.3	25.2	25.2
60°	3968.0	2733.5	100.8	84.0	60.9	39.9	31.5	27.3	23.1	18.9	18.9
62.5°	4182.1	2660.0	71.4	58.8	42.0	31.5	27.3	18.9	12.6	8.4	6.3
65°	4352.2	2513.0	48.3	39.9	27.3	23.1	16.8	8.4	2.1	0.0	0.0
67.5°	4152.7	2179.2	37.8	29.4	18.9	14.7	8.4	2.1	0.0	0.0	0.0
70°	3386.4	1690.1	27.3	18.9	12.6	4.2	2.1	0.0	0.0	0.0	0.0
72.5°	2305.2	1089.6	21.0	12.6	6.3	2.1	0.0	0.0	0.0	0.0	0.0
75°	1035.0	390.5	14.7	8.4	2.1	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	251.9	92.4	10.5	4.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	67.2	23.1	6.3	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	25.2	8.4	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	10.5	4.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	4.2	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)