

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: P676782

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

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P676782
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-2E-840-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) 4000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

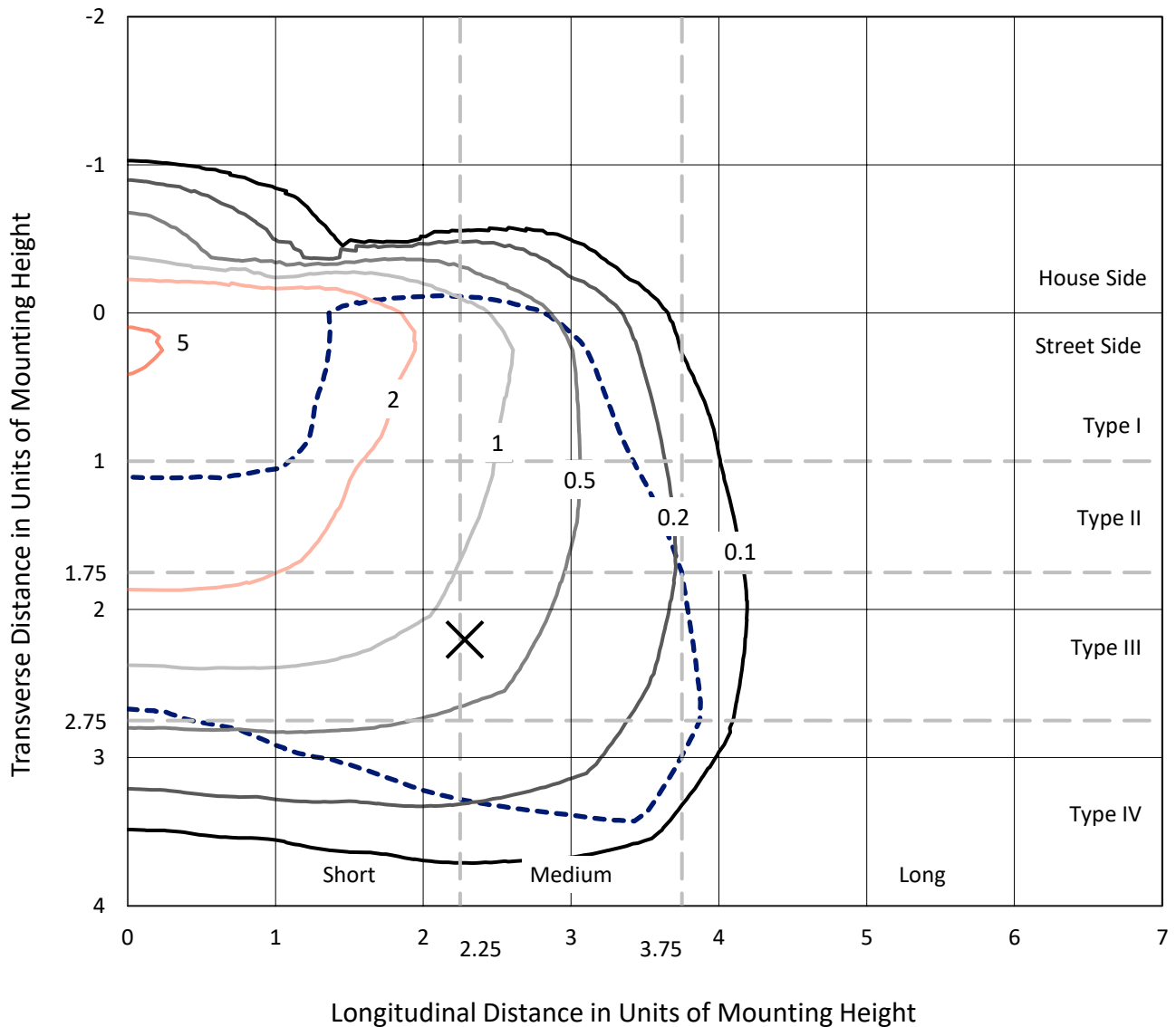
Lumens per Lamp: N/A
Luminaire Lumens: 8410.8 lumens
Efficiency: N/A
Efficacy: 78.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B1 - U0 - G2

Input Watts (W): 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

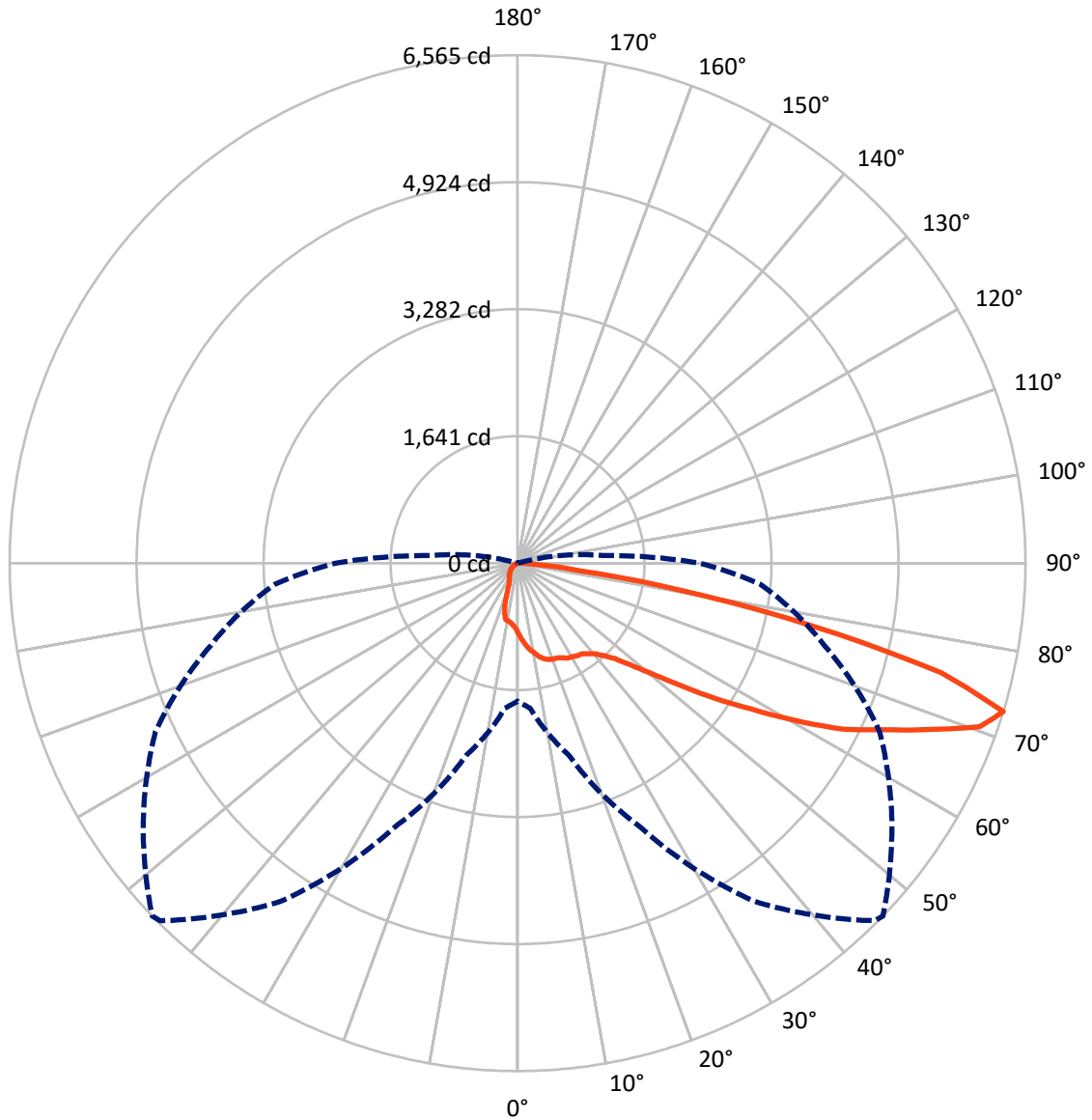
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 5.8 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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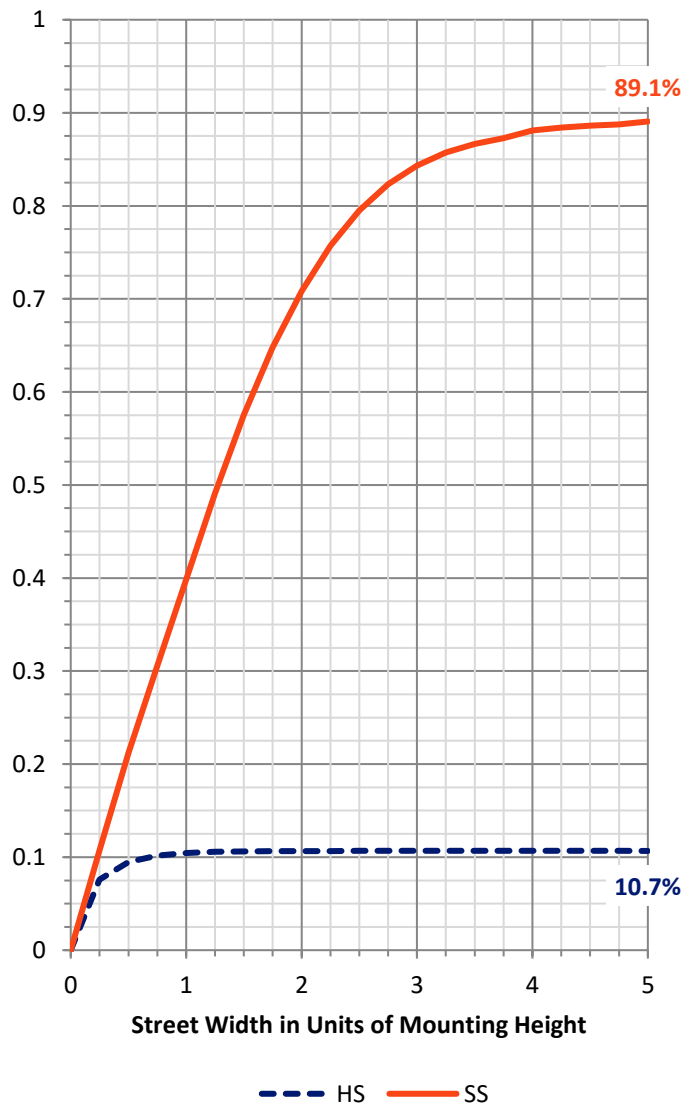
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	905.5	0.0	905.5
	% Fixture	10.8	0.0	10.8
Street Side	Lumens	7505.3	0.0	7505.3
	% Fixture	89.2	0.0	89.2
Total	Lumens	8410.8	0.0	8410.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	90.0	1.1
10°-20°	271.6	3.2
20°-30°	425.2	5.1
30°-40°	595.5	7.1
40°-50°	982.0	11.7
50°-60°	1765.0	21.0
60°-70°	2558.2	30.4
70°-80°	1596.6	19.0
80°-90°	126.6	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°	8410.8	100.0
0°-180°	8410.8	100.0



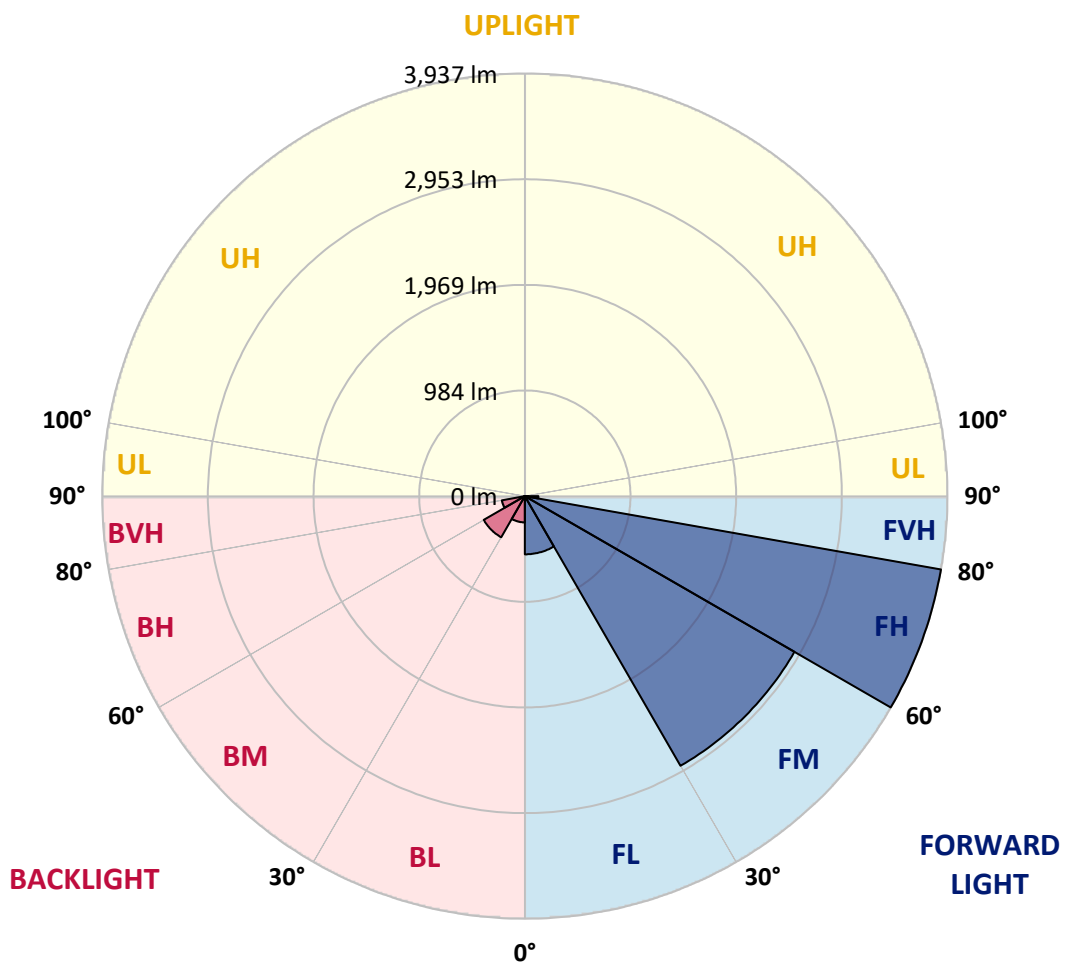
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	542.1	6.4			
FM (30°-60°)	2900.2	34.5			
FH (60°-80°)	3937.1	46.8			G2/5000
FVH (80°-90°)	125.9	1.5			G2/225
BL (0°-30°)	244.7	2.9	B1/500		
BM (30°-60°)	442.4	5.3	B1/1000		
BH (60°-80°)	217.7	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°	898.9	898.9	898.9	898.9	898.9	898.9	898.9	898.9	898.9	898.9	898.9
2.5°	1006.2	1001.9	1008.3	1006.2	980.4	984.7	982.6	965.4	935.4	918.2	907.5
5°	1122.0	1132.8	1124.2	1104.9	1089.8	1059.8	1055.5	1027.6	980.4	950.4	918.2
7.5°	1242.2	1242.2	1225.0	1195.0	1162.8	1130.6	1126.3	1079.1	1038.4	986.9	941.8
10°	1332.3	1321.5	1308.7	1276.5	1240.0	1197.1	1175.7	1141.3	1096.3	1034.1	976.1
12.5°	1411.6	1394.5	1373.0	1325.8	1282.9	1235.7	1240.0	1184.2	1154.2	1098.4	1012.6
15°	1456.7	1441.7	1422.4	1379.5	1313.0	1291.5	1282.9	1248.6	1195.0	1139.2	1057.7
17.5°	1467.4	1456.7	1431.0	1375.2	1338.7	1313.0	1310.8	1270.1	1246.5	1199.3	1109.2
20°	1446.0	1426.7	1407.4	1370.9	1336.6	1328.0	1321.5	1321.5	1291.5	1229.3	1141.3
22.5°	1409.5	1388.0	1377.3	1355.9	1328.0	1325.8	1330.1	1325.8	1302.2	1261.5	1175.7
25°	1381.6	1370.9	1353.7	1347.3	1330.1	1362.3	1355.9	1349.4	1343.0	1295.8	1229.3
27.5°	1390.2	1388.0	1375.2	1349.4	1336.6	1370.9	1390.2	1392.3	1390.2	1343.0	1278.6
30°	1394.5	1383.8	1370.9	1364.4	1368.7	1403.1	1403.1	1450.3	1431.0	1383.8	1328.0
32.5°	1443.8	1437.4	1394.5	1379.5	1381.6	1422.4	1424.5	1471.7	1465.3	1433.1	1370.9
35°	1549.0	1506.0	1443.8	1400.9	1400.9	1454.6	1437.4	1506.0	1523.2	1471.7	1400.9
37.5°	1705.6	1673.4	1561.8	1465.3	1428.8	1467.4	1484.6	1523.2	1574.7	1529.6	1461.0
40°	2016.6	2010.2	1851.4	1643.3	1499.6	1533.9	1540.4	1600.4	1634.8	1572.5	1553.2
42.5°	2471.5	2439.3	2291.2	1963.0	1628.3	1613.3	1636.9	1675.5	1757.0	1705.6	1658.4
45°	2915.5	2900.5	2752.5	2385.6	1862.2	1772.1	1759.2	1827.8	1948.0	1892.2	1855.7
47.5°	3237.3	3207.3	3123.6	2814.7	2205.4	1958.7	1967.3	2035.9	2188.3	2145.4	2156.1
50°	3484.1	3469.0	3381.1	3211.6	2638.8	2252.6	2235.5	2304.1	2510.1	2538.0	2568.0
52.5°	3754.4	3782.3	3664.3	3520.5	3151.5	2647.4	2608.8	2632.4	2898.4	2962.7	3046.4
55°	4014.0	4059.0	3941.0	3921.7	3687.9	3085.0	3078.6	3022.8	3366.1	3374.7	3419.7
57.5°	4183.5	4168.4	4159.9	4265.0	4224.2	3587.0	3554.9	3499.1	3810.2	3754.4	3889.5
60°	4196.3	4239.2	4383.0	4642.6	4715.5	4177.0	4129.8	3977.5	4194.2	4061.2	4318.6
62.5°	4292.9	4327.2	4593.2	4951.5	5045.9	4696.2	4728.4	4342.2	4522.4	4417.3	4794.9
65°	4048.3	4155.6	4689.8	5191.8	5479.2	5221.8	5189.6	4812.0	4859.2	4760.6	5264.7
67.5°	3827.3	3868.1	4425.9	5264.7	5822.5	5749.6	5736.7	5228.2	5206.8	5024.4	5397.7
70°	3110.8	3160.1	3711.5	4891.4	5938.4	6365.3	6335.2	5811.8	5442.8	4880.7	4715.5
72.5°	1782.8	1881.5	2572.3	3767.3	5335.5	6536.9	6564.8	5906.2	5163.9	4104.1	3149.4
75°	583.5	611.4	1068.4	2134.6	3990.4	5702.4	5653.0	5075.9	4166.3	2709.6	1422.4
77.5°	197.4	201.7	315.4	772.3	2211.9	3853.1	3881.0	3627.8	2559.4	1126.3	392.6
80°	100.8	107.3	154.5	289.6	909.6	2098.2	2143.2	2068.1	1072.7	332.5	94.4
82.5°	47.2	49.3	90.1	160.9	416.2	823.8	823.8	905.3	379.7	186.6	38.6
85°	17.2	17.2	47.2	92.3	175.9	274.6	276.8	278.9	199.5	139.4	17.2
87.5°	6.4	6.4	23.6	38.6	64.4	83.7	83.7	66.5	100.8	92.3	6.4
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°	898.9	898.9	898.9	898.9	898.9	898.9	898.9	898.9	898.9	898.9	898.9
2.5°	903.2	890.3	879.6	864.6	845.3	834.5	836.7	823.8	823.8	817.4	815.2
5°	903.2	890.3	862.4	836.7	819.5	798.1	787.3	778.8	778.8	774.5	776.6
7.5°	909.6	890.3	851.7	817.4	789.5	768.0	750.9	748.7	744.4	733.7	742.3
10°	948.2	920.4	856.0	808.8	776.6	753.0	723.0	714.4	701.5	682.2	684.4
12.5°	980.4	944.0	886.0	821.7	780.9	742.3	673.6	598.6	566.4	532.0	534.2
15°	1027.6	976.1	896.8	838.8	780.9	656.5	532.0	435.5	384.0	358.3	358.3
17.5°	1053.4	1010.5	926.8	849.6	718.7	534.2	377.6	293.9	285.3	289.6	289.6
20°	1107.0	1049.1	961.1	858.1	615.7	379.7	276.8	268.2	272.5	281.0	278.9
22.5°	1141.3	1083.4	986.9	819.5	476.3	272.5	259.6	255.3	259.6	270.3	270.3
25°	1169.2	1132.8	1027.6	725.1	336.8	246.7	242.4	246.7	251.0	255.3	261.7
27.5°	1237.9	1175.7	1055.5	602.8	242.4	229.6	233.8	236.0	236.0	242.4	244.6
30°	1282.9	1233.6	1077.0	465.5	214.5	212.4	216.7	218.8	221.0	227.4	229.6
32.5°	1325.8	1308.7	1049.1	315.4	201.7	197.4	195.2	197.4	206.0	212.4	210.2
35°	1388.0	1377.3	1008.3	218.8	188.8	180.2	175.9	178.1	184.5	190.9	188.8
37.5°	1463.1	1473.9	909.6	190.9	175.9	165.2	156.6	156.6	158.8	165.2	167.3
40°	1551.1	1579.0	793.8	178.1	167.3	154.5	145.9	135.2	133.0	130.9	133.0
42.5°	1712.0	1744.2	662.9	169.5	154.5	139.4	126.6	113.7	103.0	96.5	96.5
45°	1937.3	1911.5	491.3	160.9	148.0	126.6	107.3	92.3	77.2	70.8	70.8
47.5°	2248.3	2160.4	336.8	152.3	137.3	111.6	90.1	70.8	57.9	51.5	51.5
50°	2679.6	2389.9	218.8	143.7	130.9	96.5	72.9	51.5	42.9	40.8	42.9
52.5°	3087.2	2623.8	173.8	133.0	118.0	83.7	55.8	42.9	38.6	36.5	36.5
55°	3462.6	2741.8	154.5	122.3	107.3	68.7	47.2	36.5	34.3	32.2	32.2
57.5°	3780.1	2782.5	133.0	107.3	85.8	53.6	38.6	32.2	27.9	25.7	25.7
60°	4054.7	2793.3	103.0	85.8	62.2	40.8	32.2	27.9	23.6	19.3	19.3
62.5°	4273.6	2718.2	72.9	60.1	42.9	32.2	27.9	19.3	12.9	8.6	6.4
65°	4447.3	2568.0	49.3	40.8	27.9	23.6	17.2	8.6	2.1	0.0	0.0
67.5°	4243.5	2226.9	38.6	30.0	19.3	15.0	8.6	2.1	0.0	0.0	0.0
70°	3460.5	1727.0	27.9	19.3	12.9	4.3	2.1	0.0	0.0	0.0	0.0
72.5°	2355.6	1113.4	21.5	12.9	6.4	2.1	0.0	0.0	0.0	0.0	0.0
75°	1057.7	399.0	15.0	8.6	2.1	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	257.4	94.4	10.7	4.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	68.7	23.6	6.4	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	25.7	8.6	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	10.7	4.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	4.3	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)