

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: P676505

Luminaire Tested: **CCW-SA-2E-850-U-T3-HSS**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P676505
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-2E-850-U-T3-HSS
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @1050mA w/
T3 distribution lens and House Side Shield
Light Source: (32) 5000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8595.3 lumens
Efficiency: N/A
Efficacy: 80.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

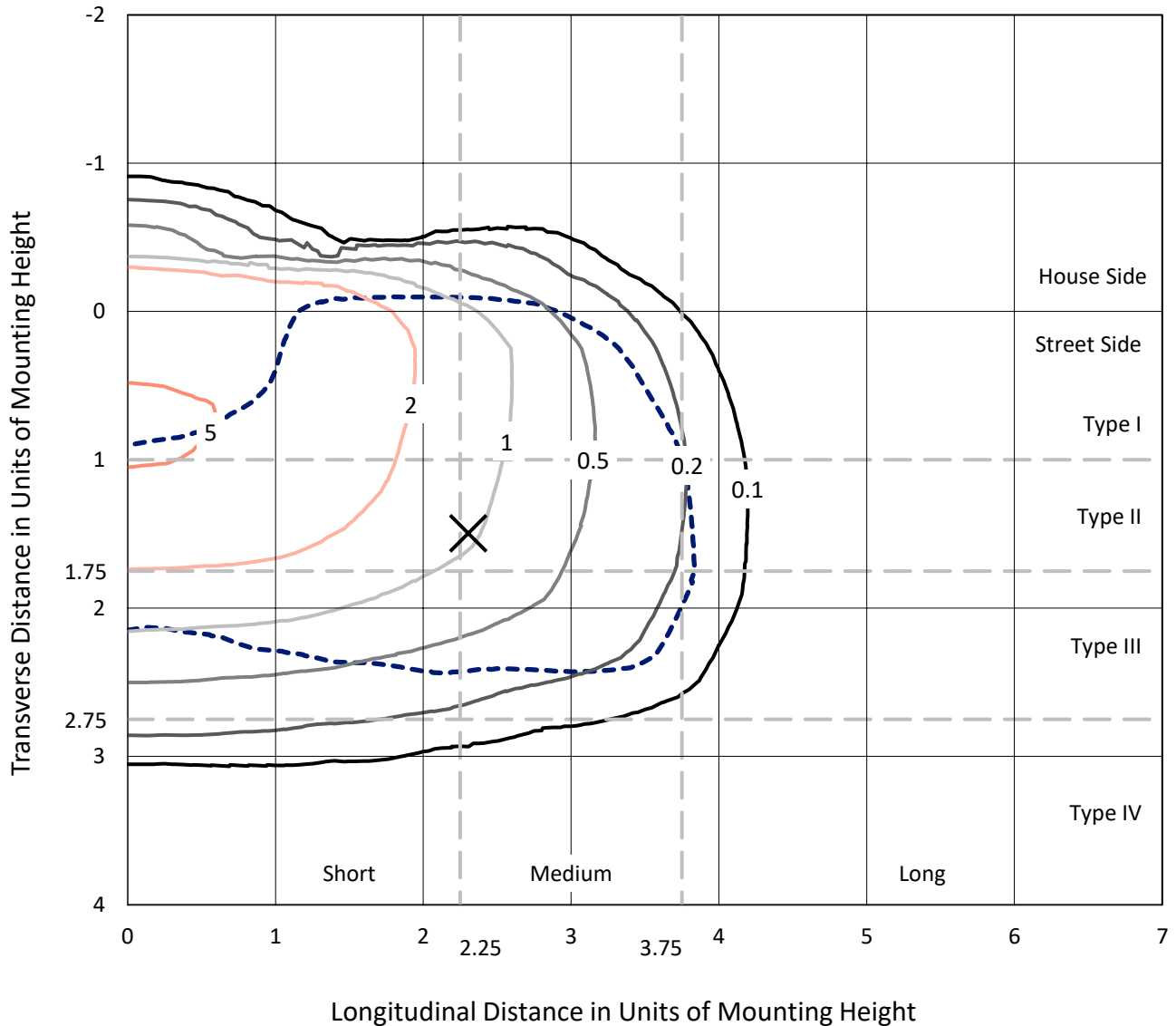
Input Watts (W): 106.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

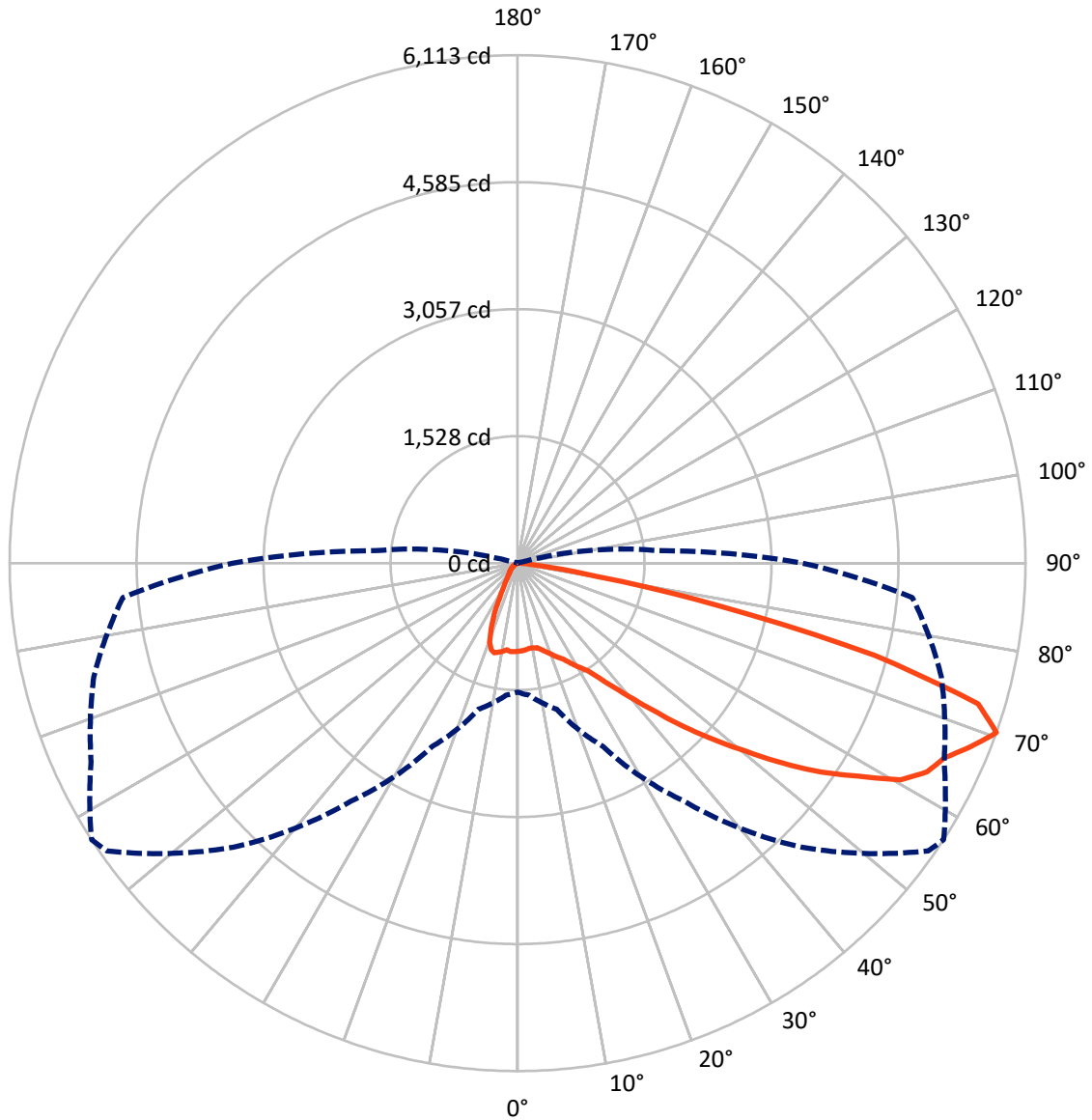
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 6 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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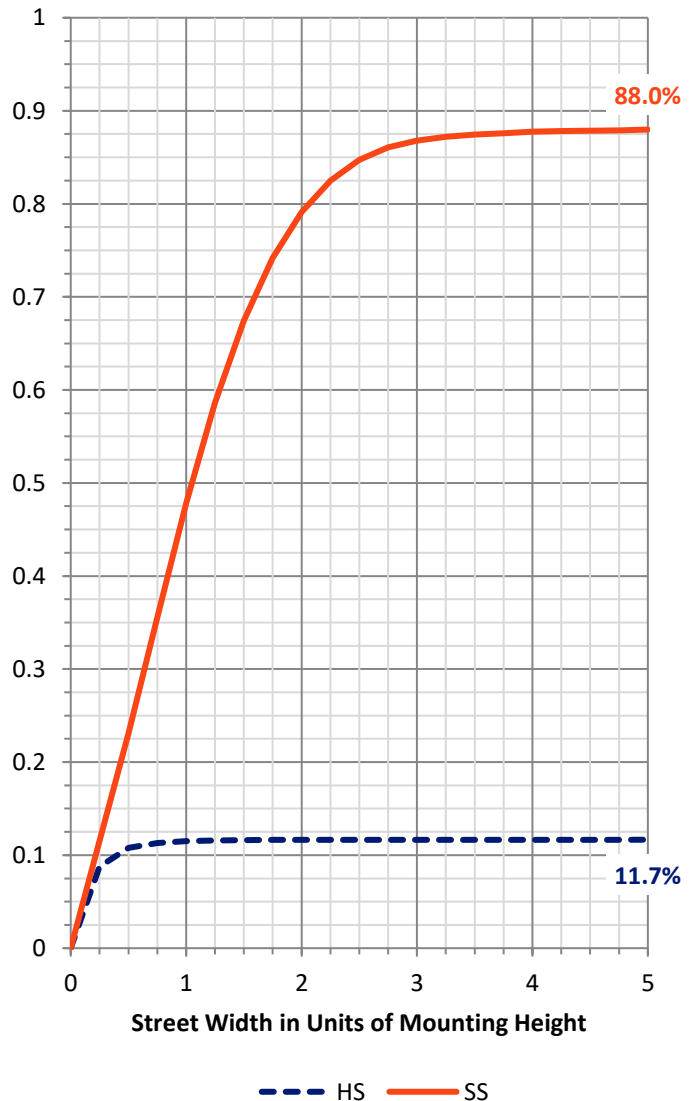
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1013.1	0.0	1013.1
	% Fixture	11.8	0.0	11.8
Street Side	Lumens	7582.2	0.0	7582.2
	% Fixture	88.2	0.0	88.2
Total	Lumens	8595.3	0.0	8595.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	99.1	1.2
10°-20°	277.1	3.2
20°-30°	466.7	5.4
30°-40°	798.8	9.3
40°-50°	1341.3	15.6
50°-60°	2058.9	24.0
60°-70°	2377.1	27.7
70°-80°	1122.9	13.1
80°-90°	53.3	0.6
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°	8595.3	100.0
0°-180°	8595.3	100.0



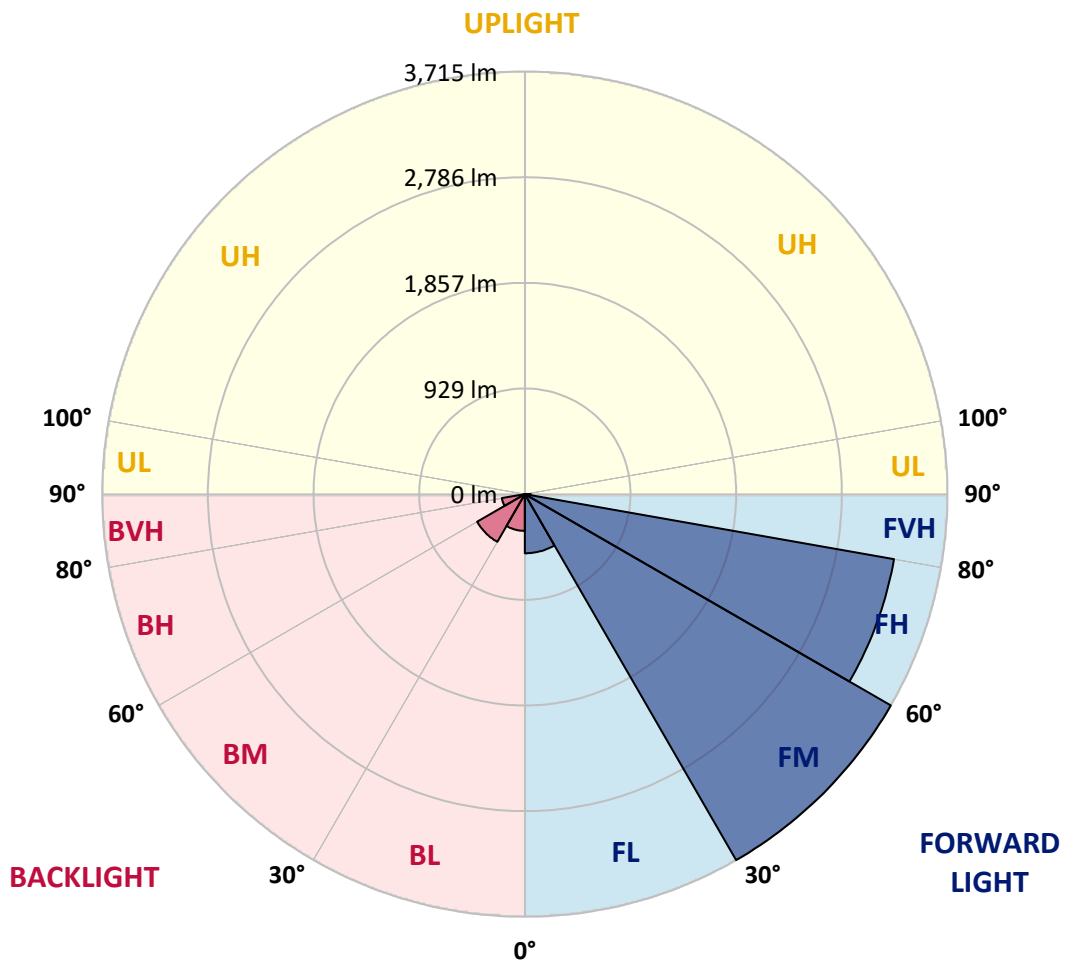
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	520.0	6.0			
FM (30°-60°)	3714.8	43.2			
FH (60°-80°)	3295.1	38.3			G2/5000
FVH (80°-90°)	52.3	0.6			G1/100
BL (0°-30°)	323.0	3.8	B1/500		
BM (30°-60°)	484.3	5.6	B1/1000		
BH (60°-80°)	204.9	2.4	B1/500		G1/500
BVH (80°-90°)	1.0	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 III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	1060.5	1060.5	1060.5	1060.5	1060.5	1060.5	1060.5	1060.5	1060.5	1060.5	1060.5
2.5°	1045.2	1038.6	1045.2	1054.0	1045.2	1051.8	1049.6	1056.2	1047.4	1047.4	1054.0
5°	977.1	988.1	992.5	1003.5	1014.4	1034.2	1047.4	1047.4	1060.5	1067.1	1075.9
7.5°	953.0	935.4	953.0	961.7	972.7	1005.7	1025.4	1034.2	1051.8	1075.9	1089.1
10°	917.8	931.0	931.0	959.5	974.9	994.7	1029.8	1036.4	1075.9	1100.1	1113.2
12.5°	915.6	915.6	926.6	946.4	977.1	1014.4	1058.4	1045.2	1086.9	1130.8	1152.8
15°	922.2	937.6	937.6	963.9	988.1	1040.8	1078.1	1080.3	1139.6	1183.5	1203.3
17.5°	950.8	944.2	953.0	968.3	1005.7	1056.2	1117.6	1124.2	1192.3	1251.6	1280.1
20°	1010.0	1021.0	1007.9	999.1	1014.4	1080.3	1159.4	1172.5	1249.4	1306.5	1335.0
22.5°	1231.8	1223.0	1170.3	1108.9	1082.5	1113.2	1198.9	1229.6	1319.6	1387.7	1411.9
25°	1482.1	1466.8	1405.3	1313.1	1192.3	1179.1	1277.9	1277.9	1407.5	1482.1	1475.5
27.5°	1719.3	1714.9	1642.4	1545.8	1374.5	1280.1	1341.6	1365.8	1506.3	1567.8	1539.2
30°	1960.8	1965.2	1899.3	1783.0	1602.9	1442.6	1431.6	1451.4	1580.9	1677.6	1618.3
32.5°	2241.9	2202.3	2156.2	1995.9	1831.3	1651.2	1548.0	1539.2	1664.4	1752.2	1673.2
35°	2492.2	2468.0	2417.5	2272.6	2083.8	1868.6	1723.7	1701.7	1769.8	1886.2	1800.5
37.5°	2711.8	2687.6	2621.7	2525.1	2378.0	2138.7	1934.5	1901.5	1930.1	2053.0	1949.8
40°	2900.6	2907.2	2889.6	2795.2	2659.1	2441.7	2206.7	2154.0	2129.9	2239.7	2123.3
42.5°	3036.7	3100.4	3104.8	2988.4	2878.6	2760.1	2496.6	2454.9	2397.8	2490.0	2408.7
45°	3322.2	3287.0	3309.0	3267.3	3146.5	3128.9	2830.3	2806.2	2727.1	2757.9	2672.2
47.5°	3546.1	3539.6	3581.3	3513.2	3480.3	3482.5	3210.2	3168.5	3056.5	3113.6	3017.0
50°	3675.7	3640.6	3792.1	3844.8	3838.2	3864.5	3594.4	3559.3	3451.7	3535.2	3328.8
52.5°	3706.4	3770.1	3912.8	4103.9	4185.1	4240.0	4013.8	4000.7	3884.3	3937.0	3651.5
55°	3783.3	3844.8	3928.2	4242.2	4543.0	4556.2	4426.6	4439.8	4336.6	4323.4	3958.9
57.5°	3781.1	3767.9	3998.5	4363.0	4780.2	4969.0	4898.7	4835.0	4723.1	4593.5	4156.6
60°	3642.8	3636.2	3875.5	4378.3	4909.7	5342.3	5370.8	5296.2	5015.1	4824.1	4389.3
62.5°	3368.3	3394.6	3636.2	4246.6	5032.7	5476.2	5581.6	5531.1	5182.0	4977.8	4663.8
65°	3054.3	2999.4	3280.5	3917.2	4756.0	5436.7	5665.0	5647.5	5379.6	5144.7	4916.3
67.5°	2450.5	2474.6	2689.8	3370.5	4283.9	5291.8	5860.5	5886.8	5537.7	5291.8	4993.1
70°	1552.4	1596.3	1820.3	2435.1	3497.8	4835.0	6036.1	6113.0	5662.8	5278.6	4769.2
72.5°	452.3	469.9	775.1	1214.3	2228.7	3877.7	5755.1	5794.6	5419.1	4791.1	3688.9
75°	149.3	158.1	228.4	395.2	873.9	2004.7	4251.0	4437.6	4312.5	3473.7	2110.1
77.5°	98.8	103.2	125.2	188.8	331.6	628.0	2279.2	2479.0	2430.7	1627.1	680.7
80°	72.5	74.7	92.2	127.4	202.0	226.2	841.0	972.7	939.8	373.3	136.1
82.5°	46.1	46.1	68.1	90.0	127.4	112.0	243.7	270.1	263.5	142.7	52.7
85°	30.7	32.9	50.5	70.3	70.3	52.7	70.3	81.2	87.8	76.9	24.2
87.5°	8.8	11.0	28.5	48.3	28.5	26.3	24.2	26.3	30.7	41.7	13.2
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°	1060.5	1060.5	1060.5	1060.5	1060.5	1060.5	1060.5	1060.5	1060.5	1060.5	1060.5
2.5°	1060.5	1069.3	1067.1	1071.5	1064.9	1058.4	1064.9	1064.9	1064.9	1058.4	1054.0
5°	1069.3	1064.9	1069.3	1060.5	1069.3	1060.5	1056.2	1043.0	1040.8	1040.8	1049.6
7.5°	1082.5	1086.9	1067.1	1067.1	1047.4	1051.8	1040.8	1043.0	1038.6	1032.0	1027.6
10°	1102.3	1119.8	1100.1	1093.5	1071.5	1054.0	1027.6	1014.4	1014.4	1005.7	1014.4
12.5°	1157.2	1150.6	1139.6	1117.6	1091.3	1056.2	992.5	928.8	876.1	836.6	856.3
15°	1201.1	1198.9	1183.5	1141.8	1106.7	999.1	838.8	674.1	586.3	546.7	540.2
17.5°	1269.1	1262.6	1236.2	1181.3	1064.9	827.8	575.3	437.0	351.3	331.6	325.0
20°	1332.8	1330.6	1273.5	1203.3	959.5	603.8	375.5	287.6	263.5	265.7	261.3
22.5°	1400.9	1389.9	1321.8	1176.9	764.1	401.8	267.9	256.9	248.1	245.9	250.3
25°	1477.7	1438.2	1370.2	1117.6	562.1	276.7	252.5	243.7	234.9	232.7	232.7
27.5°	1508.5	1482.1	1392.1	974.9	355.7	241.5	237.1	226.2	215.2	208.6	206.4
30°	1578.7	1534.8	1414.1	766.3	252.5	221.8	215.2	202.0	186.6	175.7	175.7
32.5°	1649.0	1596.3	1416.3	535.8	210.8	199.8	188.8	171.3	151.5	140.5	142.7
35°	1736.8	1664.4	1392.1	346.9	188.8	175.7	153.7	133.9	116.4	107.6	107.6
37.5°	1886.2	1818.1	1293.3	228.4	171.3	149.3	127.4	105.4	90.0	83.4	83.4
40°	2075.0	1987.2	1157.2	180.1	151.5	127.4	101.0	81.2	72.5	65.9	65.9
42.5°	2301.1	2191.4	955.2	160.3	133.9	105.4	79.0	63.7	54.9	54.9	52.7
45°	2527.3	2347.3	748.8	147.1	118.6	87.8	61.5	50.5	46.1	43.9	43.9
47.5°	2850.1	2536.1	535.8	133.9	103.2	68.1	50.5	41.7	37.3	35.1	37.3
50°	3159.7	2714.0	379.9	120.8	85.6	54.9	41.7	37.3	32.9	30.7	30.7
52.5°	3432.0	2836.9	265.7	105.4	72.5	46.1	37.3	32.9	30.7	28.5	28.5
55°	3581.3	2795.2	182.2	90.0	59.3	39.5	32.9	28.5	26.3	24.2	24.2
57.5°	3735.0	2678.8	138.3	74.7	48.3	37.3	30.7	26.3	24.2	22.0	22.0
60°	3864.5	2593.2	107.6	59.3	39.5	30.7	26.3	22.0	19.8	17.6	15.4
62.5°	3871.1	2421.9	79.0	43.9	30.7	26.3	22.0	17.6	11.0	8.8	6.6
65°	3897.5	2241.9	57.1	32.9	22.0	19.8	15.4	8.8	4.4	0.0	0.0
67.5°	3805.2	2028.9	46.1	24.2	15.4	11.0	6.6	2.2	0.0	0.0	0.0
70°	3429.8	1712.7	35.1	17.6	11.0	6.6	2.2	0.0	0.0	0.0	0.0
72.5°	2454.9	1113.2	24.2	13.2	4.4	2.2	0.0	0.0	0.0	0.0	0.0
75°	1308.7	474.3	17.6	8.8	2.2	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	410.6	120.8	11.0	4.4	2.2	0.0	0.0	0.0	0.0	0.0	0.0
80°	90.0	32.9	6.6	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	30.7	13.2	4.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	11.0	4.4	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	4.4	2.2	2.2	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)