

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: P676504

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

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P676504
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-2D-850-U-T3-HSS
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @800mA w/
T3 distribution lens and House Side Shield
Light Source: (32) 5000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

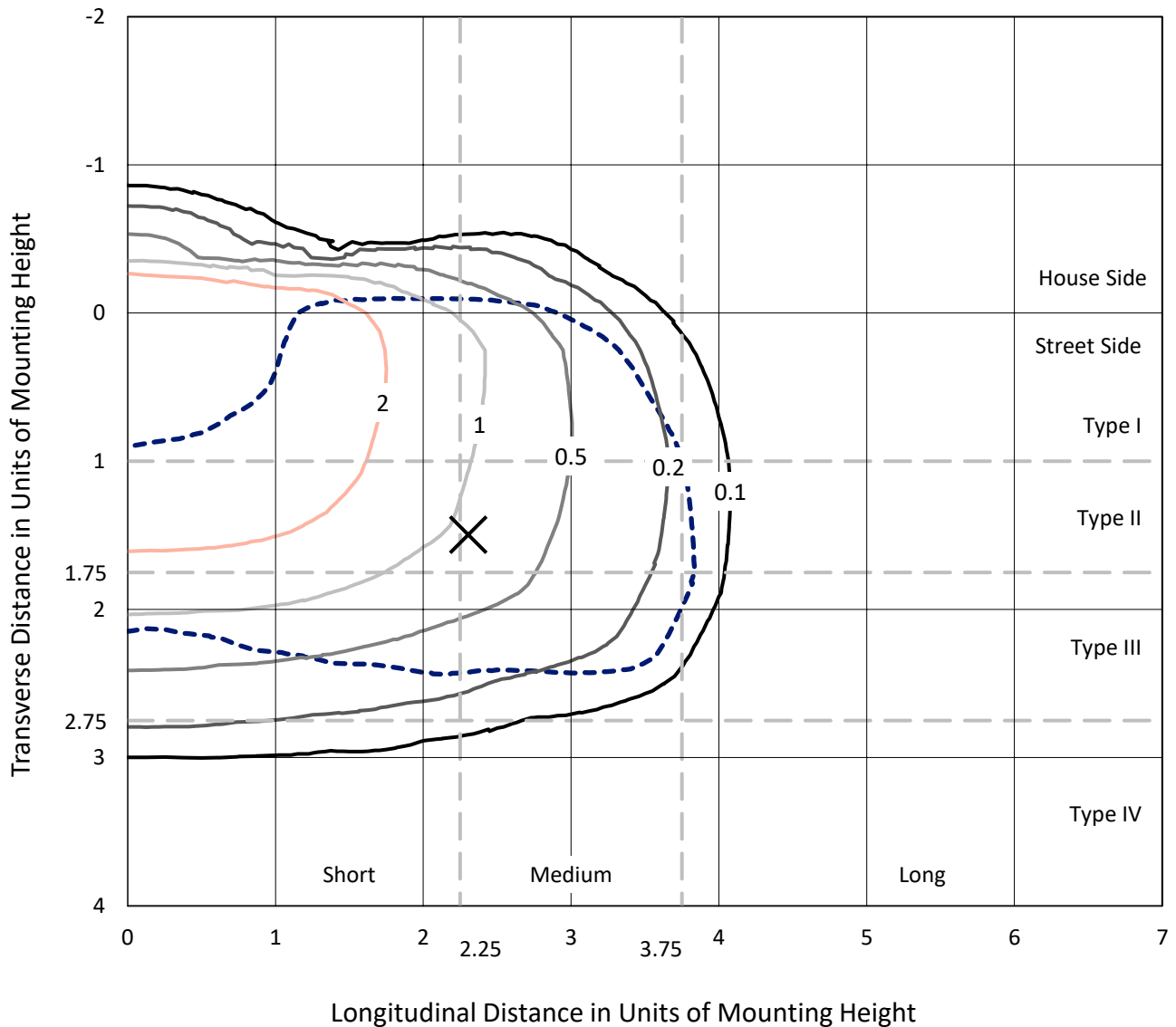
Lumens per Lamp: N/A
Luminaire Lumens: 7011 lumens
Efficiency: N/A
Efficacy: 86.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

Input Watts (W): 80.8
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

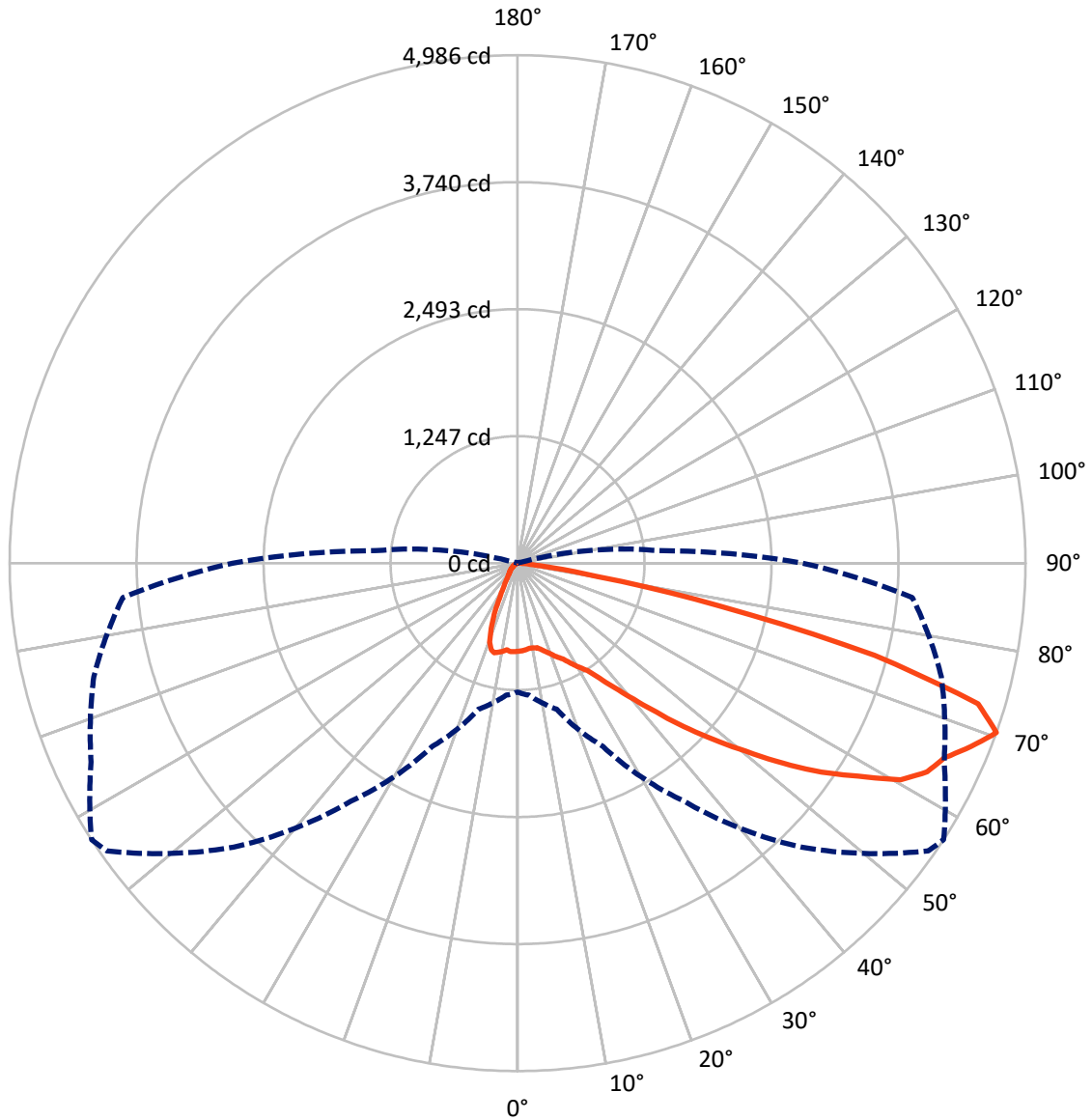
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 4.9 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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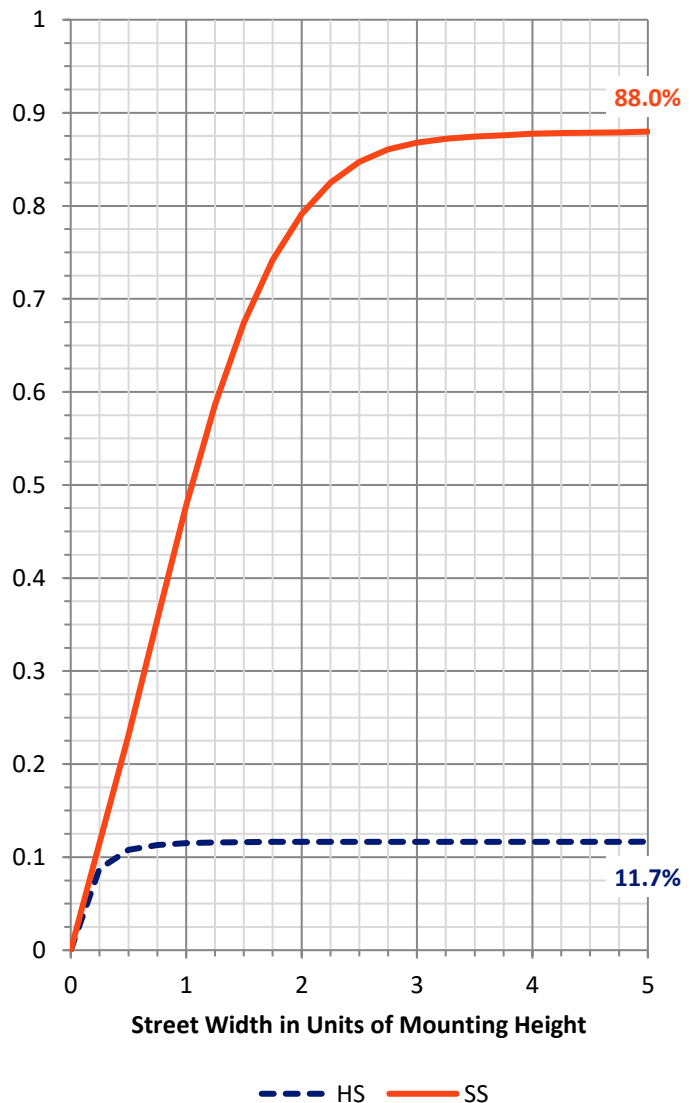
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	826.4	0.0	826.4
	% Fixture	11.8	0.0	11.8
Street Side	Lumens	6184.6	0.0	6184.6
	% Fixture	88.2	0.0	88.2
Total	Lumens	7011.0	0.0	7011.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	80.9	1.2
10°-20°	226.0	3.2
20°-30°	380.7	5.4
30°-40°	651.6	9.3
40°-50°	1094.1	15.6
50°-60°	1679.4	24.0
60°-70°	1939.0	27.7
70°-80°	915.9	13.1
80°-90°	43.5	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°	7011.0	100.0
0°-180°	7011.0	100.0

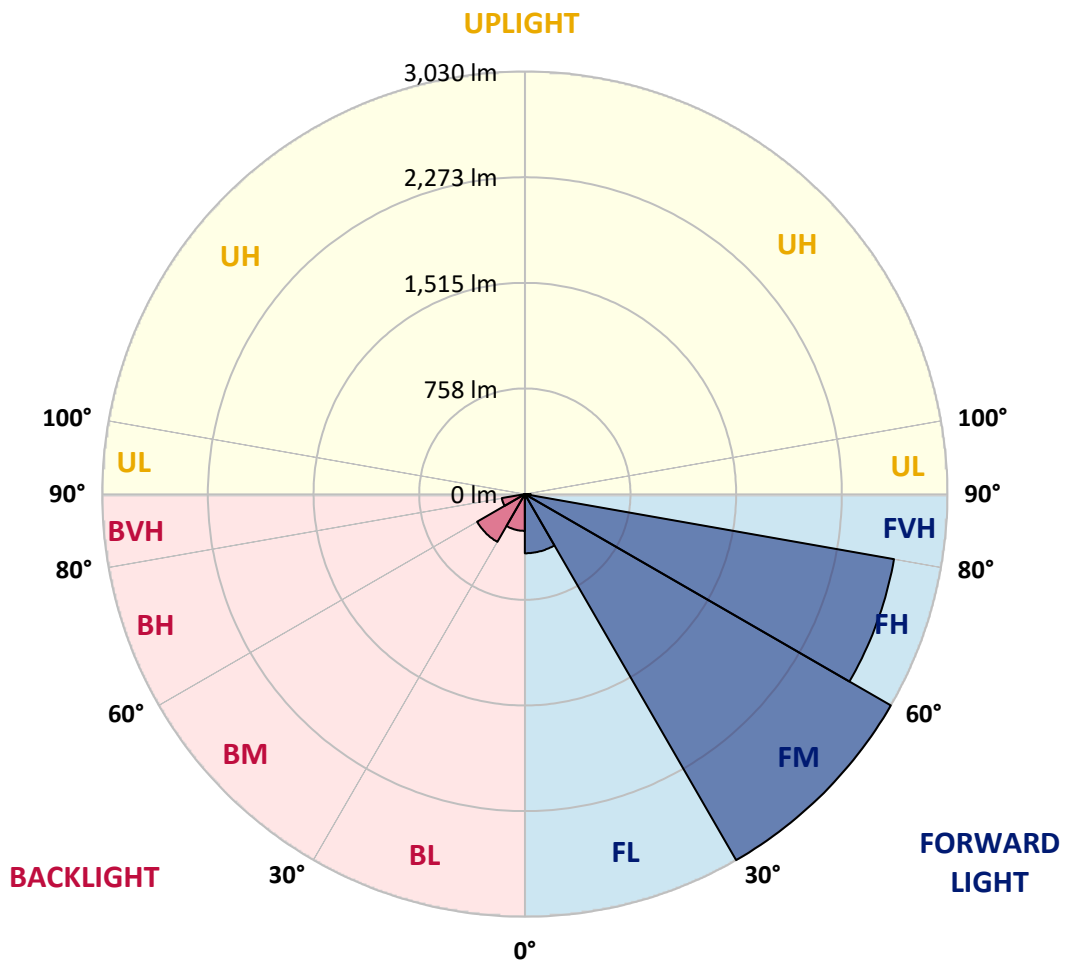


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	424.1	6.0			
FM (30°-60°)	3030.0	43.2			
FH (60°-80°)	2687.7	38.3			G2/5000
FVH (80°-90°)	42.7	0.6			G1/100
BL (0°-30°)	263.5	3.8	B1/500		
BM (30°-60°)	395.0	5.6	B1/1000		
BH (60°-80°)	167.1	2.4	B1/500		G1/500
BVH (80°-90°)	0.8	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°	865.1	865.1	865.1	865.1	865.1	865.1	865.1	865.1	865.1	865.1	865.1
2.5°	852.5	847.2	852.5	859.7	852.5	857.9	856.1	861.5	854.3	854.3	859.7
5°	797.0	806.0	809.5	818.5	827.5	843.6	854.3	854.3	865.1	870.4	877.6
7.5°	777.3	763.0	777.3	784.5	793.4	820.3	836.4	843.6	857.9	877.6	888.3
10°	748.6	759.4	759.4	782.7	795.2	811.3	840.0	845.4	877.6	897.3	908.0
12.5°	746.9	746.9	755.8	771.9	797.0	827.5	863.3	852.5	886.6	922.4	940.3
15°	752.2	764.8	764.8	786.3	806.0	848.9	879.4	881.2	929.5	965.4	981.5
17.5°	775.5	770.1	777.3	789.8	820.3	861.5	911.6	917.0	972.5	1020.9	1044.2
20°	823.9	832.8	822.1	814.9	827.5	881.2	945.7	956.4	1019.1	1065.7	1088.9
22.5°	1004.8	997.6	954.6	904.5	883.0	908.0	977.9	1003.0	1076.4	1131.9	1151.6
25°	1208.9	1196.4	1146.3	1071.0	972.5	961.8	1042.4	1042.4	1148.0	1208.9	1203.6
27.5°	1402.4	1398.8	1339.7	1260.9	1121.2	1044.2	1094.3	1114.0	1228.6	1278.8	1255.5
30°	1599.4	1603.0	1549.2	1454.3	1307.4	1176.7	1167.7	1183.9	1289.5	1368.3	1320.0
32.5°	1828.6	1796.4	1758.8	1628.0	1493.7	1346.8	1262.7	1255.5	1357.6	1429.2	1364.8
35°	2032.8	2013.1	1971.9	1853.7	1699.7	1524.2	1406.0	1388.0	1443.6	1538.5	1468.6
37.5°	2211.9	2192.2	2138.5	2059.7	1939.7	1744.5	1577.9	1551.0	1574.3	1674.6	1590.4
40°	2365.9	2371.3	2357.0	2280.0	2168.9	1991.6	1800.0	1757.0	1737.3	1826.8	1731.9
42.5°	2477.0	2528.9	2532.5	2437.6	2348.0	2251.3	2036.4	2002.4	1955.8	2031.0	1964.8
45°	2709.8	2681.2	2699.1	2665.0	2566.5	2552.2	2308.6	2288.9	2224.5	2249.5	2179.7
47.5°	2892.5	2887.1	2921.2	2865.6	2838.8	2840.6	2618.5	2584.4	2493.1	2539.7	2460.9
50°	2998.2	2969.5	3093.1	3136.1	3130.7	3152.2	2931.9	2903.2	2815.5	2883.5	2715.2
52.5°	3023.2	3075.2	3191.6	3347.4	3413.7	3458.5	3274.0	3263.2	3168.3	3211.3	2978.5
55°	3085.9	3136.1	3204.1	3460.3	3705.6	3716.4	3610.7	3621.4	3537.3	3526.5	3229.2
57.5°	3084.1	3073.4	3261.5	3558.8	3899.1	4053.1	3995.8	3943.8	3852.5	3746.8	3390.4
60°	2971.3	2965.9	3161.2	3571.3	4004.7	4357.6	4380.8	4319.9	4090.7	3934.9	3580.3
62.5°	2747.4	2768.9	2965.9	3463.8	4105.0	4466.8	4552.8	4511.6	4226.8	4060.2	3804.1
65°	2491.3	2446.5	2675.8	3195.2	3879.4	4434.6	4620.8	4606.5	4388.0	4196.4	4010.1
67.5°	1998.8	2018.5	2194.0	2749.2	3494.3	4316.4	4780.2	4801.7	4517.0	4316.4	4072.8
70°	1266.3	1302.1	1484.8	1986.2	2853.1	3943.8	4923.5	4986.2	4619.0	4305.6	3890.1
72.5°	369.0	383.3	632.2	990.4	1817.9	3162.9	4694.3	4726.5	4420.2	3908.0	3008.9
75°	121.8	129.0	186.3	322.4	712.8	1635.2	3467.4	3619.7	3517.6	2833.4	1721.2
77.5°	80.6	84.2	102.1	154.0	270.4	512.2	1859.1	2022.1	1982.7	1327.1	555.2
80°	59.1	60.9	75.2	103.9	164.8	184.5	686.0	793.4	766.6	304.5	111.0
82.5°	37.6	37.6	55.5	73.4	103.9	91.3	198.8	220.3	214.9	116.4	43.0
85°	25.1	26.9	41.2	57.3	57.3	43.0	57.3	66.3	71.6	62.7	19.7
87.5°	7.2	9.0	23.3	39.4	23.3	21.5	19.7	21.5	25.1	34.0	10.7
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°	865.1	865.1	865.1	865.1	865.1	865.1	865.1	865.1	865.1	865.1	865.1
2.5°	865.1	872.2	870.4	874.0	868.6	863.3	868.6	868.6	868.6	863.3	859.7
5°	872.2	868.6	872.2	865.1	872.2	865.1	861.5	850.7	848.9	848.9	856.1
7.5°	883.0	886.6	870.4	870.4	854.3	857.9	848.9	850.7	847.2	841.8	838.2
10°	899.1	913.4	897.3	891.9	874.0	859.7	838.2	827.5	827.5	820.3	827.5
12.5°	943.9	938.5	929.5	911.6	890.1	861.5	809.5	757.6	714.6	682.4	698.5
15°	979.7	977.9	965.4	931.3	902.7	814.9	684.2	549.8	478.2	446.0	440.6
17.5°	1035.2	1029.8	1008.3	963.6	868.6	675.2	469.2	356.4	286.6	270.4	265.1
20°	1087.2	1085.4	1038.8	981.5	782.7	492.5	306.3	234.6	214.9	216.7	213.1
22.5°	1142.7	1133.7	1078.2	960.0	623.3	327.8	218.5	209.5	202.4	200.6	204.2
25°	1205.4	1173.1	1117.6	911.6	458.5	225.7	206.0	198.8	191.6	189.8	189.8
27.5°	1230.4	1208.9	1135.5	795.2	290.1	197.0	193.4	184.5	175.5	170.1	168.4
30°	1287.7	1251.9	1153.4	625.1	206.0	180.9	175.5	164.8	152.2	143.3	143.3
32.5°	1345.1	1302.1	1155.2	437.0	171.9	163.0	154.0	139.7	123.6	114.6	116.4
35°	1416.7	1357.6	1135.5	283.0	154.0	143.3	125.4	109.3	94.9	87.8	87.8
37.5°	1538.5	1483.0	1054.9	186.3	139.7	121.8	103.9	86.0	73.4	68.1	68.1
40°	1692.5	1620.9	943.9	146.9	123.6	103.9	82.4	66.3	59.1	53.7	53.7
42.5°	1877.0	1787.4	779.1	130.7	109.3	86.0	64.5	51.9	44.8	44.8	43.0
45°	2061.5	1914.6	610.7	120.0	96.7	71.6	50.1	41.2	37.6	35.8	35.8
47.5°	2324.7	2068.6	437.0	109.3	84.2	55.5	41.2	34.0	30.4	28.7	30.4
50°	2577.3	2213.7	309.8	98.5	69.8	44.8	34.0	30.4	26.9	25.1	25.1
52.5°	2799.4	2314.0	216.7	86.0	59.1	37.6	30.4	26.9	25.1	23.3	23.3
55°	2921.2	2280.0	148.7	73.4	48.4	32.2	26.9	23.3	21.5	19.7	19.7
57.5°	3046.5	2185.0	112.8	60.9	39.4	30.4	25.1	21.5	19.7	17.9	17.9
60°	3152.2	2115.2	87.8	48.4	32.2	25.1	21.5	17.9	16.1	14.3	12.5
62.5°	3157.6	1975.5	64.5	35.8	25.1	21.5	17.9	14.3	9.0	7.2	5.4
65°	3179.1	1828.6	46.6	26.9	17.9	16.1	12.5	7.2	3.6	0.0	0.0
67.5°	3103.8	1654.9	37.6	19.7	12.5	9.0	5.4	1.8	0.0	0.0	0.0
70°	2797.6	1397.0	28.7	14.3	9.0	5.4	1.8	0.0	0.0	0.0	0.0
72.5°	2002.4	908.0	19.7	10.7	3.6	1.8	0.0	0.0	0.0	0.0	0.0
75°	1067.4	386.9	14.3	7.2	1.8	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	334.9	98.5	9.0	3.6	1.8	0.0	0.0	0.0	0.0	0.0	0.0
80°	73.4	26.9	5.4	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	25.1	10.7	3.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	9.0	3.6	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	3.6	1.8	1.8	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)