

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: P180103

Luminaire Tested: **ICM-F05-LED-E1-5WQ**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P180103
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33675)
Test Lab: INNOVATION CENTER-P3
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: ICM-F05-LED-E1-5WQ
Description: ICON SITE MEDIUM LED LUMINAIRE
(5) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE WIDE
Light Source: (35) 4000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12224.7 lumens
Efficiency: N/A
Efficacy: 91.7 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.83' x L: 1' x H: 0.1')
IES Classification: Type V - Short - Semi-Cutoff
BUG Rating: B4 - U0 - G2

Input Watts (W): 133.3
Input Voltage (V): NR
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

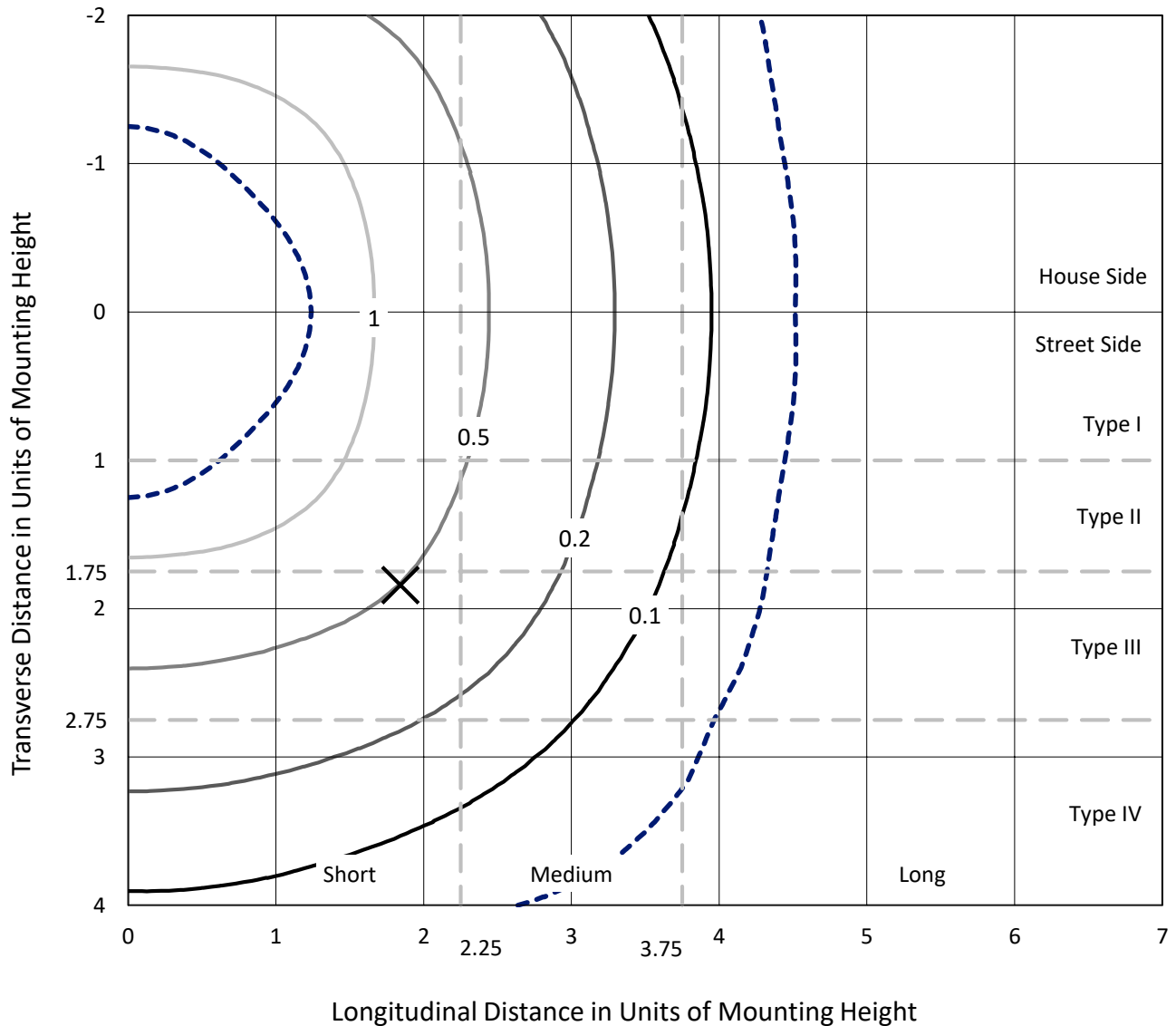


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Iso-Footcandle Lines of Horizontal Illumination

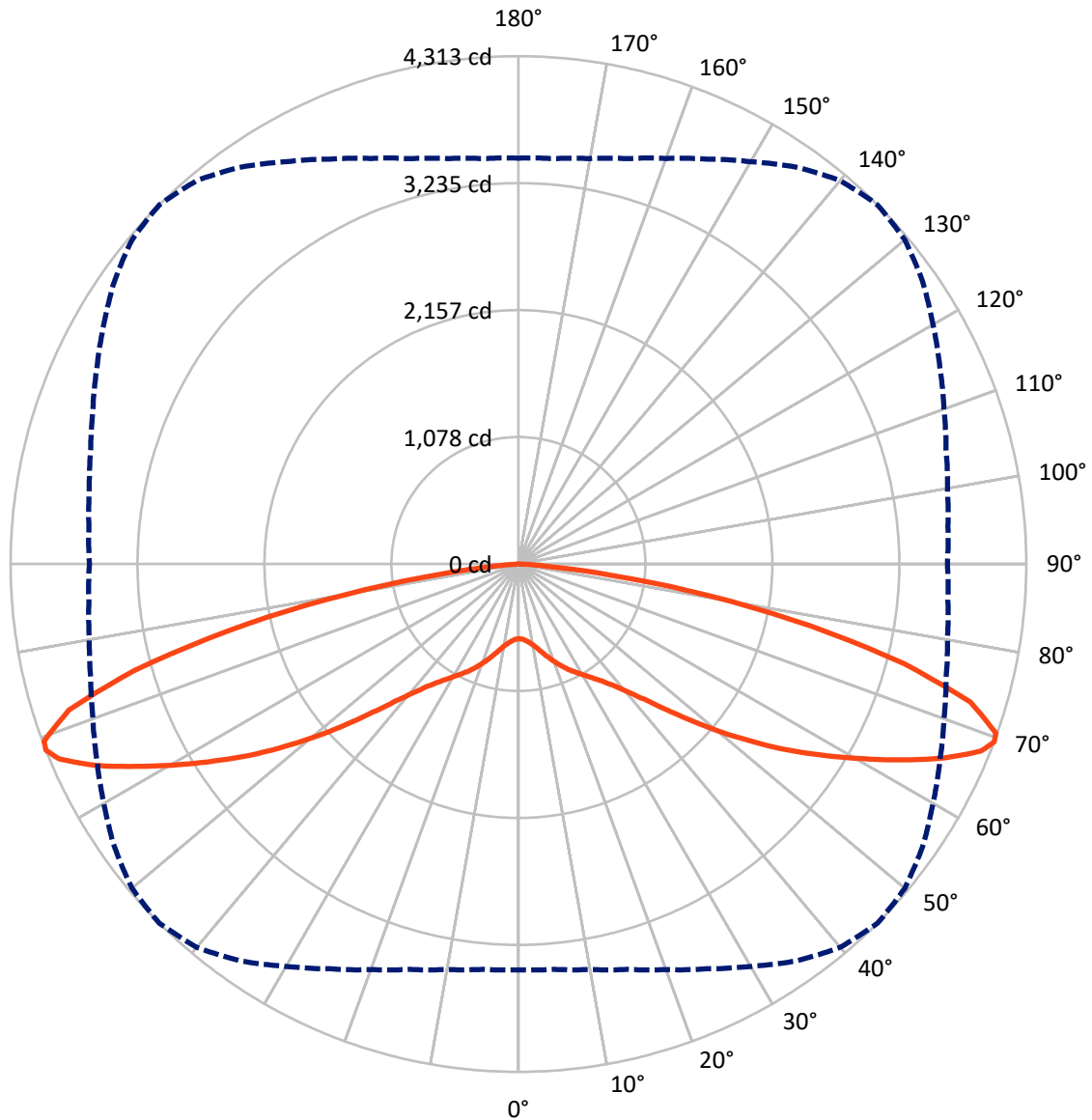
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 1.8 fc
 Type V - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6112.4	0.0	6112.4
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	6112.4	0.0	6112.4
	% Fixture	50.0	0.0	50.0
Total	Lumens	12224.7	0.0	12224.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	63.8	0.5
10°-20°	225.1	1.8
20°-30°	455.8	3.7
30°-40°	764.2	6.3
40°-50°	1347.9	11.0
50°-60°	2377.0	19.4
60°-70°	3629.0	29.7
70°-80°	3032.5	24.8
80°-90°	329.5	2.7
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°	12224.7	100.0
0°-180°	12224.7	100.0



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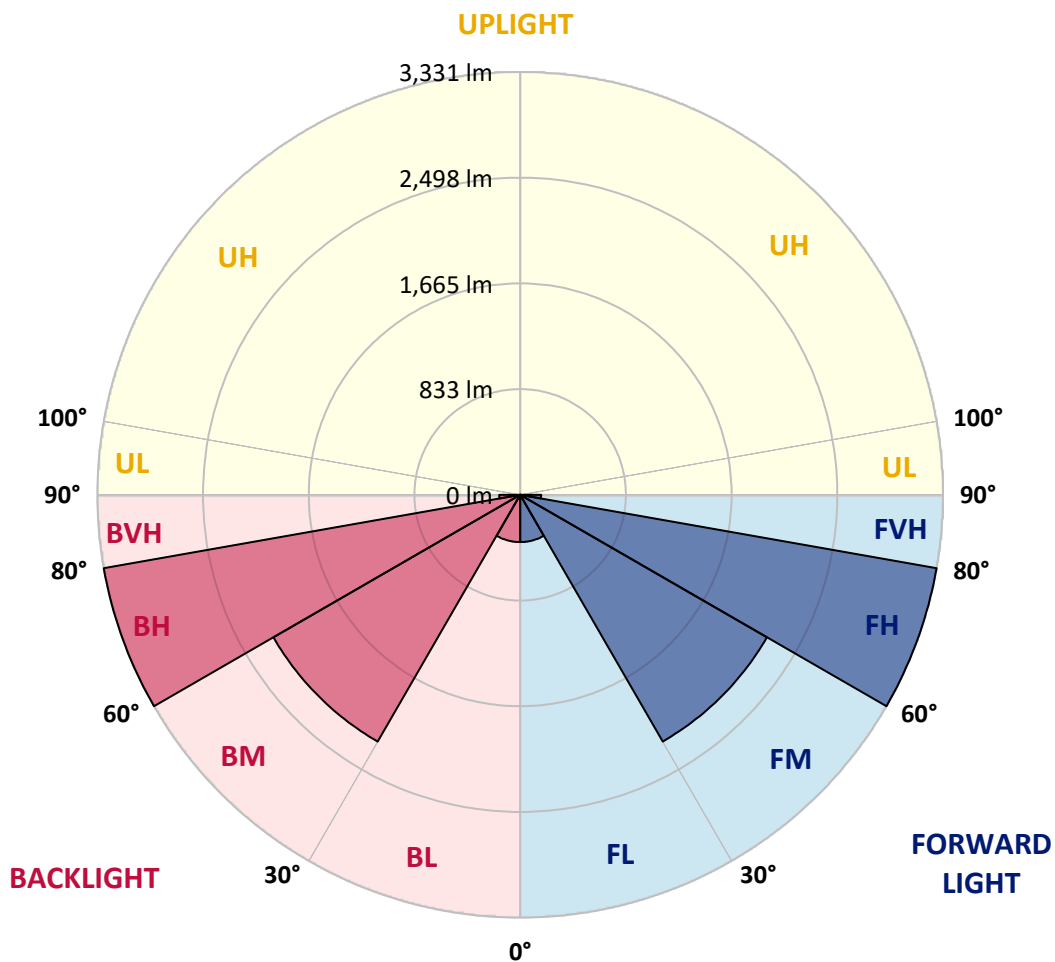
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	372.3	3.0			
FM	(30°-60°)	2244.6	18.4			
FH	(60°-80°)	3330.7	27.2			G2/5000
FVH	(80°-90°)	164.7	1.3			G2/225
BL	(0°-30°)	372.3	3.0	B1/500		
BM	(30°-60°)	2244.6	18.4	B2/2500		
BH	(60°-80°)	3330.7	27.2	B4/5000		G2/5000
BVH	(80°-90°)	164.7	1.3			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	634.8	634.8	634.8	634.8	634.8	634.8	634.8	634.8	634.8	634.8	634.8
2.5°	639.9	641.2	639.9	639.9	639.9	639.9	639.9	638.7	638.7	638.7	639.9
5°	652.7	654.1	652.7	654.1	654.1	654.1	654.1	652.7	652.7	652.7	652.7
7.5°	673.2	673.2	673.2	674.5	673.2	673.2	674.5	673.2	673.2	673.2	673.2
10°	702.7	701.4	701.4	701.4	701.4	701.4	702.7	702.7	702.7	701.4	701.4
12.5°	738.5	737.2	738.5	738.5	739.8	739.8	739.8	739.8	739.8	739.8	738.5
15°	782.1	782.1	782.1	783.3	785.9	785.9	784.6	785.9	785.9	785.9	785.9
17.5°	830.6	833.2	830.6	831.9	833.2	831.9	834.5	835.7	837.0	835.7	831.9
20°	880.6	881.9	881.9	881.9	881.9	884.4	885.7	885.7	889.5	888.3	887.0
22.5°	927.9	930.5	930.5	931.7	931.7	935.6	935.6	935.6	938.1	940.7	938.1
25°	977.9	976.6	976.6	979.1	980.4	985.5	985.5	988.1	991.9	993.2	990.6
27.5°	1022.6	1021.3	1021.3	1025.2	1026.5	1032.8	1032.8	1038.0	1040.6	1041.9	1039.3
30°	1070.0	1070.0	1068.8	1072.6	1076.4	1081.5	1084.1	1089.2	1093.0	1094.3	1091.7
32.5°	1126.3	1123.7	1125.0	1127.5	1130.1	1135.3	1139.1	1145.5	1150.6	1151.9	1149.3
35°	1190.3	1186.4	1187.7	1190.3	1194.1	1201.8	1208.2	1212.1	1219.7	1222.3	1217.2
37.5°	1260.7	1262.0	1260.7	1267.1	1273.5	1282.4	1290.1	1295.3	1302.9	1306.8	1302.9
40°	1360.6	1356.7	1360.6	1366.9	1377.1	1388.7	1404.0	1407.9	1415.5	1423.3	1414.2
42.5°	1489.8	1487.3	1496.2	1501.3	1512.8	1525.6	1544.8	1555.1	1566.6	1571.7	1564.0
45°	1658.7	1658.7	1668.9	1670.2	1688.2	1704.8	1731.7	1744.5	1766.2	1766.2	1766.2
47.5°	1845.6	1853.3	1859.6	1872.5	1885.3	1916.0	1942.9	1971.0	1991.5	1994.1	1990.2
50°	2038.9	2046.5	2065.8	2083.6	2111.8	2150.2	2179.6	2216.8	2234.7	2250.1	2244.9
52.5°	2252.6	2253.9	2276.9	2299.9	2340.9	2383.2	2430.5	2468.9	2500.9	2515.0	2503.5
55°	2486.8	2489.4	2509.9	2534.2	2580.3	2628.9	2687.7	2727.5	2768.4	2794.0	2774.8
57.5°	2740.2	2741.5	2762.0	2791.5	2846.4	2895.1	2951.5	3007.7	3046.2	3069.1	3056.4
60°	3020.6	3026.9	3042.3	3079.5	3131.9	3183.1	3239.4	3289.3	3334.2	3358.4	3345.6
62.5°	3320.0	3326.4	3348.2	3377.6	3423.7	3480.0	3533.8	3597.8	3634.9	3661.8	3642.5
65°	3521.0	3532.5	3567.1	3606.7	3674.5	3747.6	3810.3	3897.2	3942.1	3974.1	3956.1
67.5°	3533.8	3540.2	3582.4	3642.5	3733.4	3843.6	3971.5	4107.2	4195.5	4237.7	4207.0
69°	3446.7	3455.7	3496.7	3564.5	3665.6	3793.6	3945.9	4114.8	4250.5	4313.2	4283.8
70°	3348.2	3367.4	3412.2	3486.4	3585.0	3719.4	3876.8	4057.2	4215.9	4301.7	4279.9
72.5°	3140.9	3146.0	3175.4	3234.3	3309.8	3421.1	3569.6	3739.8	3890.9	4013.7	4031.7
75°	2787.6	2804.2	2826.0	2865.7	2904.1	2984.7	3084.6	3201.0	3289.3	3384.0	3387.8
77.5°	2106.7	2156.6	2173.2	2182.2	2198.9	2262.8	2349.9	2451.0	2523.9	2539.3	2536.8
80°	945.9	1012.4	1027.7	1100.8	1145.5	1251.7	1384.8	1539.7	1643.4	1654.9	1626.7
82.5°	185.6	198.4	231.6	289.2	394.2	456.9	543.9	652.7	752.6	810.1	775.6
85°	61.4	65.3	75.5	83.2	96.0	108.7	131.8	163.8	203.5	225.3	200.9
87.5°	24.3	24.3	28.2	30.7	33.3	33.3	33.3	30.7	29.4	24.3	21.8
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):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	634.8	634.8	634.8	634.8	634.8	634.8	634.8	634.8
2.5°	638.7	638.7	638.7	638.7	638.7	638.7	638.7	638.7
5°	652.7	651.4	651.4	650.1	650.1	650.1	650.1	650.1
7.5°	671.9	670.7	669.4	670.7	669.4	669.4	669.4	669.4
10°	701.4	698.8	697.6	696.3	696.3	696.3	695.0	695.0
12.5°	735.9	735.9	734.7	733.4	730.8	732.1	730.8	728.3
15°	783.3	780.7	779.4	778.1	775.6	775.6	775.6	774.3
17.5°	830.6	828.1	828.1	824.3	823.0	823.0	823.0	824.3
20°	883.2	879.3	876.7	874.1	871.6	872.8	870.3	872.8
22.5°	935.6	930.5	927.9	924.1	920.3	920.3	919.0	916.4
25°	986.8	980.4	977.9	974.0	968.8	968.8	966.3	963.7
27.5°	1035.4	1029.0	1026.5	1018.8	1013.7	1012.4	1009.9	1008.6
30°	1089.2	1081.5	1077.7	1070.0	1062.3	1061.0	1057.2	1057.2
32.5°	1145.5	1137.9	1135.3	1123.7	1117.3	1117.3	1114.8	1112.2
35°	1215.9	1204.4	1201.8	1190.3	1181.3	1181.3	1178.8	1180.1
37.5°	1299.1	1290.1	1281.2	1272.2	1262.0	1260.7	1258.1	1255.5
40°	1410.4	1400.2	1390.0	1377.1	1368.2	1365.7	1361.8	1360.6
42.5°	1558.9	1548.7	1528.2	1518.0	1509.0	1501.3	1500.0	1498.7
45°	1748.3	1735.5	1721.5	1702.2	1690.7	1674.1	1671.5	1665.1
47.5°	1976.2	1951.8	1927.5	1910.9	1892.9	1873.8	1870.0	1859.6
50°	2218.1	2198.9	2157.9	2131.0	2102.9	2083.6	2070.9	2067.0
52.5°	2477.9	2442.1	2401.0	2365.2	2324.3	2298.7	2275.6	2269.2
55°	2749.2	2698.0	2646.8	2604.6	2563.6	2532.9	2511.2	2500.9
57.5°	3020.6	2964.2	2907.9	2861.9	2827.3	2787.6	2765.9	2760.8
60°	3303.4	3249.6	3192.0	3146.0	3103.7	3069.1	3056.4	3032.0
62.5°	3602.9	3546.5	3492.9	3448.0	3394.3	3370.0	3348.2	3334.2
65°	3897.2	3832.0	3764.1	3716.8	3663.1	3628.5	3601.6	3582.4
67.5°	4125.0	4026.5	3935.7	3856.3	3783.4	3729.6	3695.1	3677.1
69°	4189.0	4066.3	3949.7	3846.1	3760.3	3700.2	3661.8	3643.8
70°	4181.4	4045.7	3917.8	3803.8	3710.4	3646.4	3609.3	3576.0
72.5°	3944.6	3820.5	3678.4	3554.3	3469.8	3408.4	3371.3	3353.3
75°	3366.2	3282.9	3180.5	3084.6	3023.1	2987.3	2941.2	2942.4
77.5°	2451.0	2453.6	2384.5	2285.9	2216.8	2204.0	2183.5	2163.0
80°	1520.5	1398.9	1319.5	1213.3	1135.3	1067.4	1038.0	974.0
82.5°	701.4	547.8	424.9	321.2	247.0	193.3	168.9	138.2
85°	156.2	119.1	98.5	79.3	67.8	62.7	51.2	47.3
87.5°	21.8	19.2	18.0	16.7	14.0	10.2	7.7	6.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)