

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: P180111

Luminaire Tested: **ICM-F06-LED-E1-5WQ-8030**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P180111
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-F06-LED-E1-5WQ-8030
Description: ICON SITE MEDIUM LED LUMINAIRE
(6) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE WIDE
Light Source: (42) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12381.1 lumens
Efficiency: N/A
Efficacy: 79.1 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 1' x L: 1' x H: 0.1')
IES Classification: Type V - Short - Semi-Cutoff
BUG Rating: B4 - U0 - G2

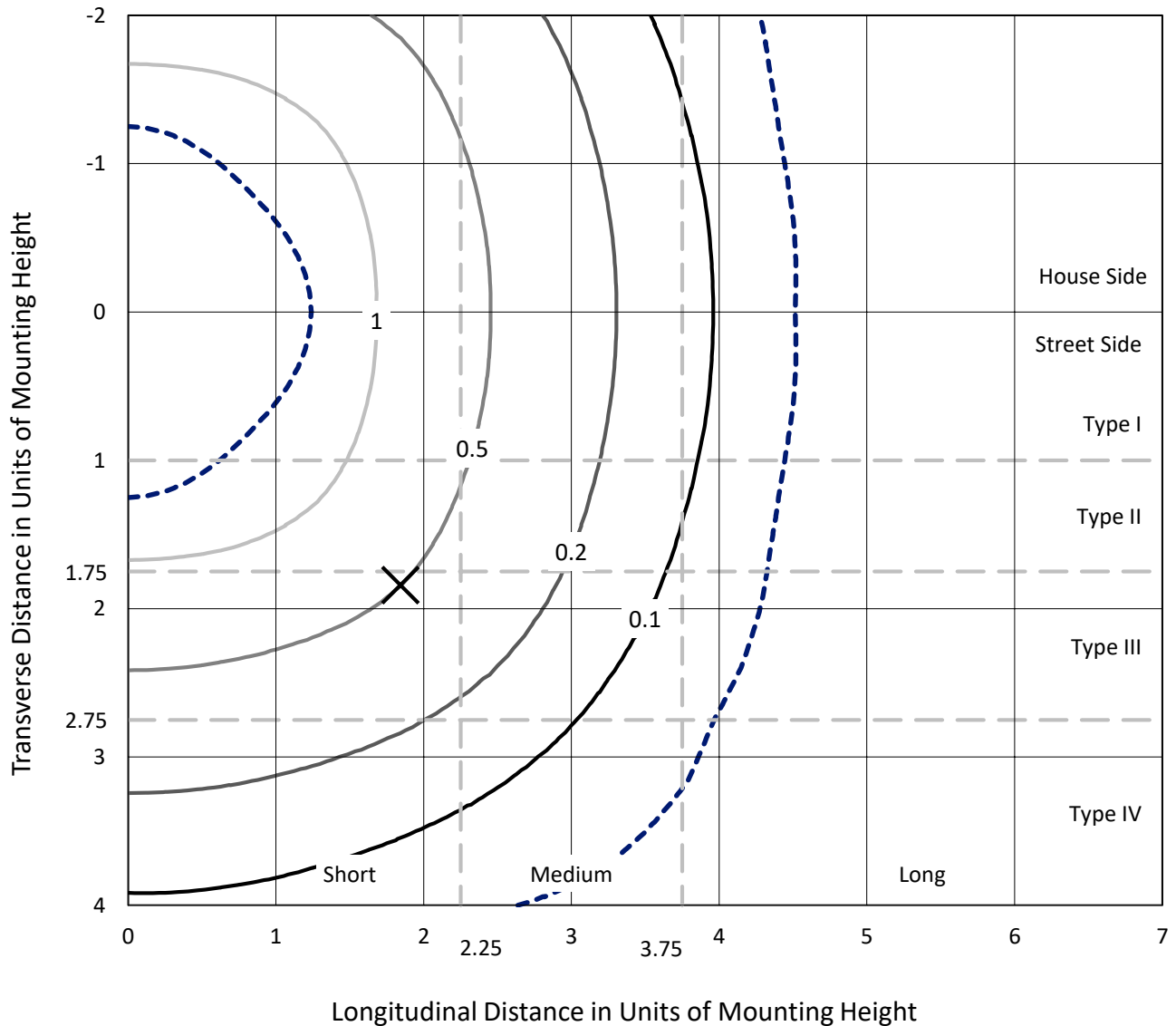
Input Watts (W): 156.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

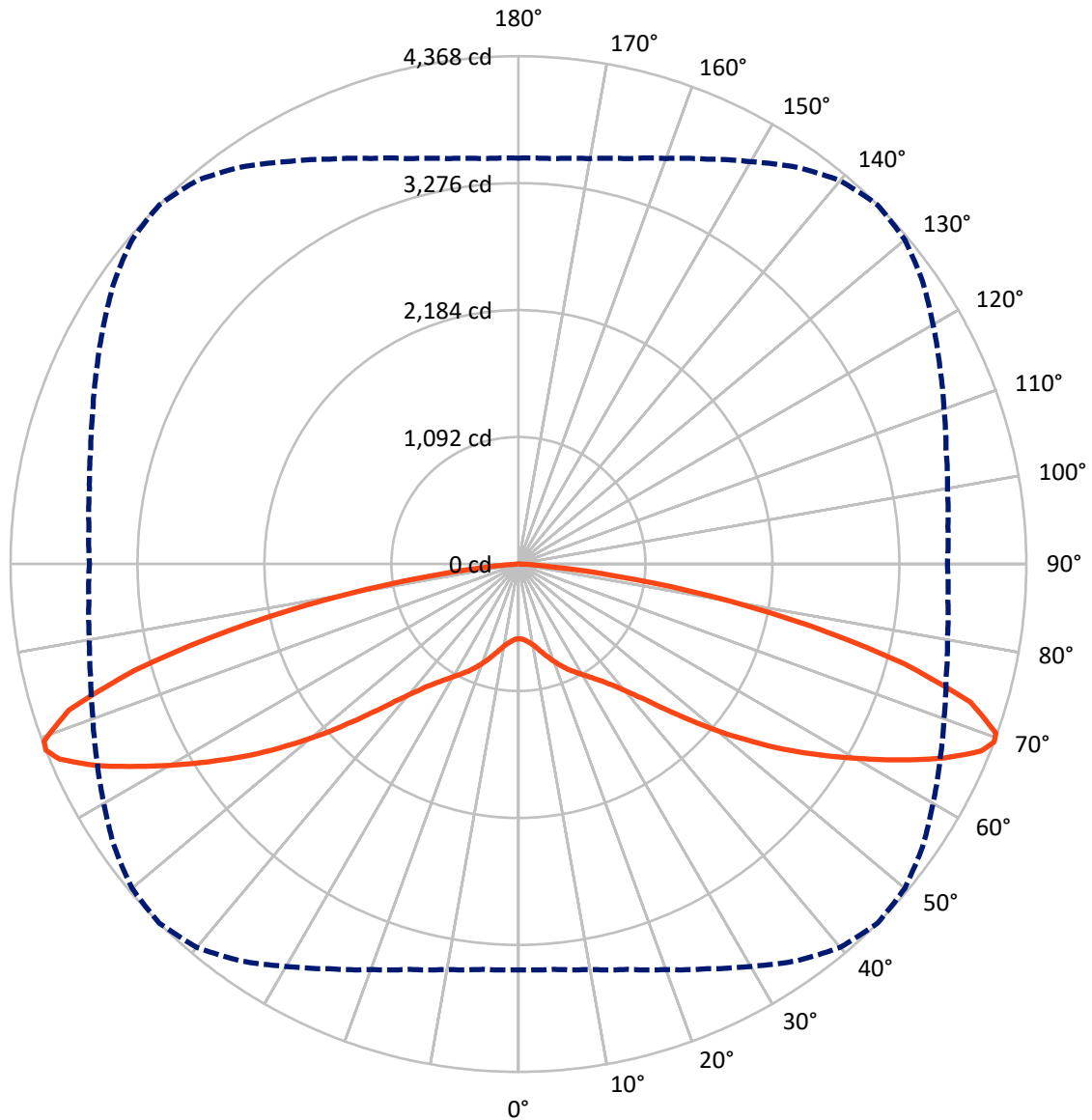
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 1.9 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	6190.5	0.0	6190.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	6190.5	0.0	6190.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	12381.1	0.0	12381.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	64.6	0.5
10°-20°	228.0	1.8
20°-30°	461.6	3.7
30°-40°	773.9	6.3
40°-50°	1365.2	11.0
50°-60°	2407.4	19.4
60°-70°	3675.4	29.7
70°-80°	3071.2	24.8
80°-90°	333.7	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°	12381.1	100.0
0°-180°	12381.1	100.0



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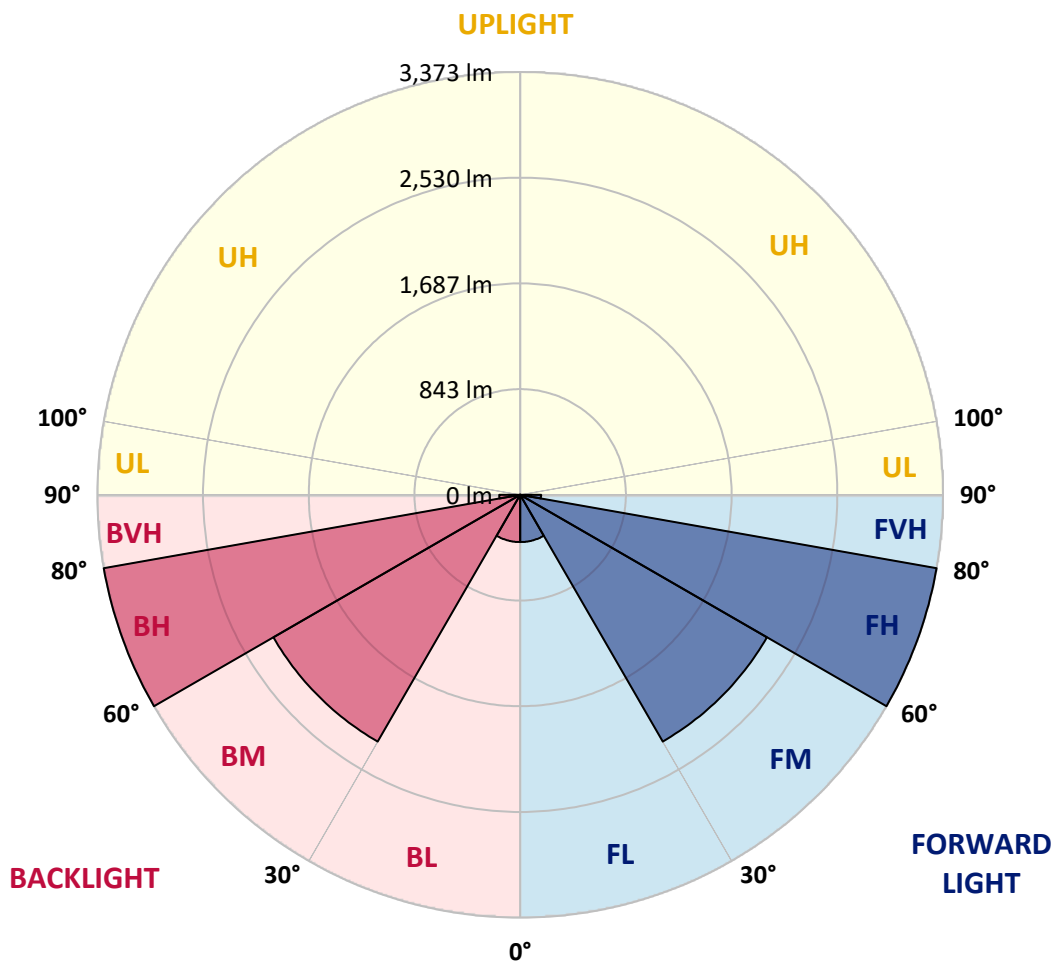
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	377.1	3.0			
FM	(30°-60°)	2273.3	18.4			
FH	(60°-80°)	3373.3	27.2			G2/5000
FVH	(80°-90°)	166.9	1.3			G2/225
BL	(0°-30°)	377.1	3.0	B1/500		
BM	(30°-60°)	2273.3	18.4	B2/2500		
BH	(60°-80°)	3373.3	27.2	B4/5000		G2/5000
BVH	(80°-90°)	166.9	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°	643.0	643.0	643.0	643.0	643.0	643.0	643.0	643.0	643.0	643.0	643.0
2.5°	648.1	649.4	648.1	648.1	648.1	648.1	648.1	646.8	646.8	646.8	648.1
5°	661.1	662.4	661.1	662.4	662.4	662.4	662.4	661.1	661.1	661.1	661.1
7.5°	681.9	681.9	681.9	683.2	681.9	681.9	683.2	681.9	681.9	681.9	681.9
10°	711.6	710.3	710.3	710.3	710.3	710.3	711.6	711.6	711.6	710.3	710.3
12.5°	747.9	746.6	747.9	747.9	749.2	749.2	749.2	749.2	749.2	749.2	747.9
15°	792.0	792.0	792.0	793.3	795.9	795.9	794.6	795.9	795.9	795.9	795.9
17.5°	841.3	843.8	841.3	842.6	843.8	842.6	845.1	846.4	847.7	846.4	842.6
20°	891.8	893.1	893.1	893.1	893.1	895.7	897.0	897.0	900.9	899.6	898.3
22.5°	939.8	942.4	942.4	943.6	943.6	947.5	947.5	947.5	950.1	952.8	950.1
25°	990.3	989.0	989.0	991.6	992.9	998.1	998.1	1000.8	1004.6	1005.9	1003.3
27.5°	1035.7	1034.4	1034.4	1038.3	1039.6	1046.1	1046.1	1051.3	1053.9	1055.2	1052.6
30°	1083.6	1083.6	1082.3	1086.2	1090.1	1095.4	1098.0	1103.1	1107.0	1108.3	1105.7
32.5°	1140.8	1138.1	1139.4	1142.0	1144.6	1149.8	1153.7	1160.2	1165.3	1166.6	1164.0
35°	1205.5	1201.6	1202.9	1205.5	1209.4	1217.2	1223.6	1227.5	1235.4	1238.0	1232.8
37.5°	1276.8	1278.1	1276.8	1283.3	1289.8	1298.9	1306.6	1311.8	1319.6	1323.4	1319.6
40°	1378.0	1374.1	1378.0	1384.4	1394.8	1406.4	1422.0	1425.9	1433.7	1441.4	1432.4
42.5°	1508.8	1506.2	1515.4	1520.5	1532.2	1545.1	1564.6	1575.0	1586.6	1591.8	1584.0
45°	1679.9	1679.9	1690.3	1691.6	1709.8	1726.6	1753.9	1766.8	1788.8	1788.8	1788.8
47.5°	1869.2	1876.9	1883.5	1896.4	1909.4	1940.5	1967.7	1996.2	2016.9	2019.5	2015.6
50°	2064.9	2072.8	2092.2	2110.3	2138.8	2177.7	2207.5	2245.1	2263.3	2278.8	2273.6
52.5°	2281.4	2282.7	2306.1	2329.4	2370.9	2413.6	2461.6	2500.5	2532.9	2547.2	2535.5
55°	2518.6	2521.2	2542.0	2566.6	2613.2	2662.5	2722.2	2762.3	2803.8	2829.7	2810.2
57.5°	2775.3	2776.6	2797.3	2827.2	2882.9	2932.1	2989.1	3046.3	3085.1	3108.4	3095.5
60°	3059.2	3065.7	3081.2	3118.8	3171.9	3223.8	3280.9	3331.4	3376.8	3401.4	3388.4
62.5°	3362.5	3369.0	3391.0	3420.9	3467.5	3524.5	3579.0	3643.7	3681.4	3708.6	3689.1
65°	3566.0	3577.7	3612.7	3652.9	3721.6	3795.5	3859.0	3947.1	3992.5	4024.9	4006.7
67.5°	3579.0	3585.4	3628.2	3689.1	3781.2	3892.7	4022.3	4159.7	4249.1	4291.9	4260.8
69°	3490.8	3499.9	3541.4	3610.1	3712.5	3842.1	3996.4	4167.5	4304.9	4368.4	4338.5
70°	3391.0	3410.4	3455.8	3531.0	3630.8	3766.9	3926.3	4109.1	4269.9	4356.8	4334.7
72.5°	3181.0	3186.3	3216.0	3275.6	3352.1	3464.9	3615.3	3787.7	3940.7	4065.0	4083.2
75°	2823.3	2840.1	2862.2	2902.3	2941.2	3022.9	3124.0	3242.0	3331.4	3427.3	3431.2
77.5°	2133.7	2184.2	2201.0	2210.2	2227.0	2291.8	2379.9	2482.3	2556.2	2571.7	2569.2
80°	958.0	1025.3	1040.9	1114.8	1160.2	1267.7	1402.5	1559.4	1664.4	1676.1	1647.5
82.5°	188.0	200.9	234.6	292.9	399.3	462.8	550.9	661.1	762.2	820.6	785.5
85°	62.2	66.1	76.5	84.3	97.2	110.1	133.5	166.0	206.1	228.2	203.5
87.5°	24.7	24.7	28.6	31.1	33.7	33.7	33.7	31.1	29.8	24.7	22.0
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°	643.0	643.0	643.0	643.0	643.0	643.0	643.0	643.0
2.5°	646.8	646.8	646.8	646.8	646.8	646.8	646.8	646.8
5°	661.1	659.8	659.8	658.5	658.5	658.5	658.5	658.5
7.5°	680.6	679.3	678.0	679.3	678.0	678.0	678.0	678.0
10°	710.3	707.7	706.4	705.1	705.1	705.1	703.9	703.9
12.5°	745.3	745.3	744.1	742.8	740.2	741.5	740.2	737.6
15°	793.3	790.7	789.4	788.1	785.5	785.5	785.5	784.3
17.5°	841.3	838.7	838.7	834.8	833.5	833.5	833.5	834.8
20°	894.4	890.5	887.9	885.3	882.8	884.0	881.5	884.0
22.5°	947.5	942.4	939.8	935.9	932.0	932.0	930.7	928.1
25°	999.4	992.9	990.3	986.4	981.3	981.3	978.7	976.1
27.5°	1048.7	1042.2	1039.6	1031.8	1026.6	1025.3	1022.7	1021.5
30°	1103.1	1095.4	1091.4	1083.6	1075.9	1074.6	1070.7	1070.7
32.5°	1160.2	1152.4	1149.8	1138.1	1131.6	1131.6	1129.0	1126.4
35°	1231.4	1219.8	1217.2	1205.5	1196.5	1196.5	1193.9	1195.2
37.5°	1315.7	1306.6	1297.6	1288.5	1278.1	1276.8	1274.2	1271.6
40°	1428.5	1418.1	1407.7	1394.8	1385.7	1383.1	1379.3	1378.0
42.5°	1578.8	1568.5	1547.7	1537.4	1528.3	1520.5	1519.2	1518.0
45°	1770.7	1757.7	1743.5	1724.0	1712.4	1695.5	1692.9	1686.4
47.5°	2001.4	1976.8	1952.2	1935.4	1917.1	1897.7	1893.9	1883.5
50°	2246.4	2227.0	2185.5	2158.2	2129.8	2110.3	2097.3	2093.5
52.5°	2509.6	2473.2	2431.8	2395.5	2354.0	2328.1	2304.8	2298.2
55°	2784.4	2732.5	2680.7	2637.9	2596.4	2565.3	2543.3	2532.9
57.5°	3059.2	3002.2	2945.1	2898.4	2863.5	2823.3	2801.2	2796.0
60°	3345.6	3291.2	3232.9	3186.3	3143.5	3108.4	3095.5	3070.8
62.5°	3649.0	3591.9	3537.5	3492.1	3437.7	3413.0	3391.0	3376.8
65°	3947.1	3881.0	3812.3	3764.3	3709.9	3674.9	3647.7	3628.2
67.5°	4177.9	4078.1	3986.0	3905.6	3831.7	3777.3	3742.3	3724.1
69°	4242.6	4118.3	4000.3	3895.3	3808.4	3747.5	3708.6	3690.4
70°	4234.9	4097.5	3967.8	3852.5	3757.9	3693.0	3655.5	3621.8
72.5°	3995.1	3869.3	3725.4	3599.7	3514.2	3451.9	3414.3	3396.2
75°	3409.1	3325.0	3221.2	3124.0	3061.8	3025.5	2978.8	2980.1
77.5°	2482.3	2484.9	2414.9	2315.1	2245.1	2232.2	2211.5	2190.7
80°	1539.9	1416.8	1336.5	1228.8	1149.8	1081.1	1051.3	986.4
82.5°	710.3	554.8	430.3	325.4	250.1	195.7	171.1	140.0
85°	158.1	120.6	99.8	80.4	68.7	63.5	51.8	48.0
87.5°	22.0	19.4	18.1	16.8	14.2	10.3	7.8	6.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)