

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: P179996

Luminaire Tested: **ICM-E05-LED-E1-5MQ-8030**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P179996  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33674)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: ICM-E05-LED-E1-5MQ-8030  
Description: ICON SITE MEDIUM LED LUMINAIRE  
(5) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE MEDIUM  
Light Source: (105) 3000K CCT, 80 CRI LEDs  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 12655.1 lumens  
Efficiency: N/A  
Efficacy: 99.4 lumens/watt  
Luminous Opening: Rectangular w/ Sides (W: 0.83' x L: 1' x H: 0.1')  
IES Classification: Type V - Short - Full Cutoff  
BUG Rating: B4 - U0 - G2

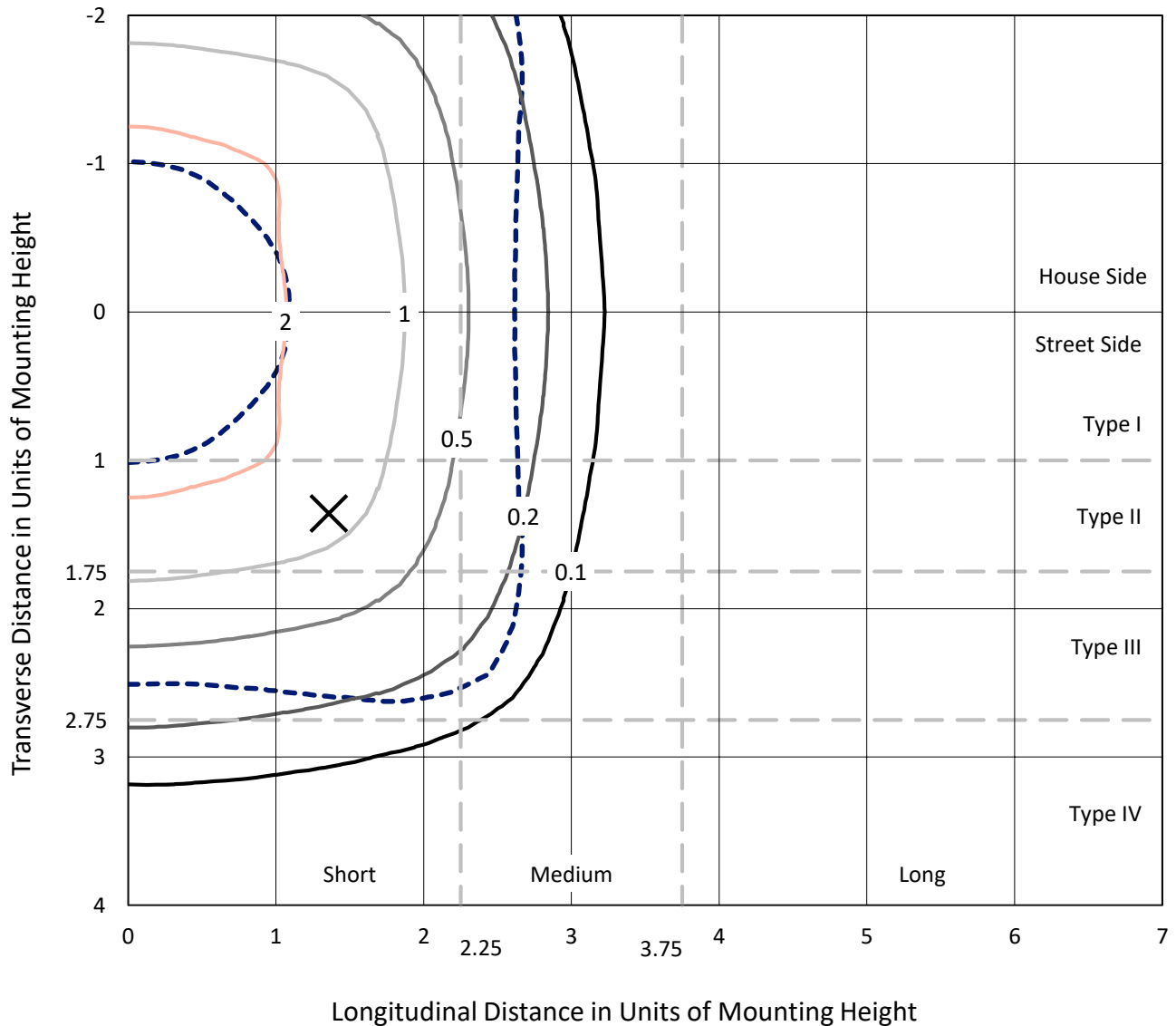
Input Watts (W): 127.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

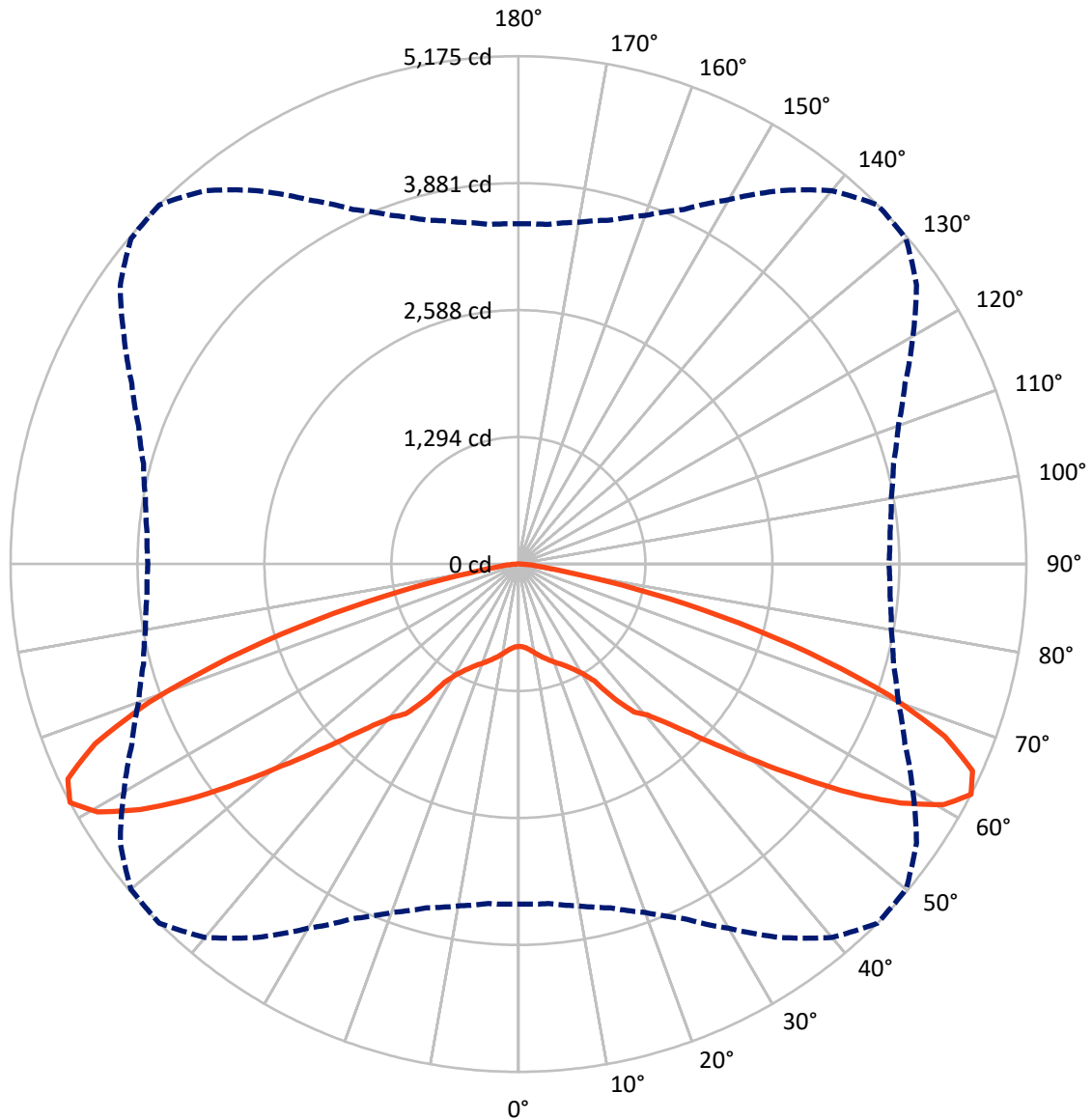
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 2.4 fc  
 Type V - Short - Full Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral    - - - Horizontal Cone Through 62.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6327.6	0.0	6327.6
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	6327.6	0.0	6327.6
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	12655.1	0.0	12655.1
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	84.2	0.7
10°-20°	284.6	2.2
20°-30°	550.2	4.3
30°-40°	1065.4	8.4
40°-50°	1923.6	15.2
50°-60°	3344.9	26.4
60°-70°	3797.3	30.0
70°-80°	1472.2	11.6
80°-90°	132.8	1.0
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°	12655.1	100.0
0°-180°	12655.1	100.0



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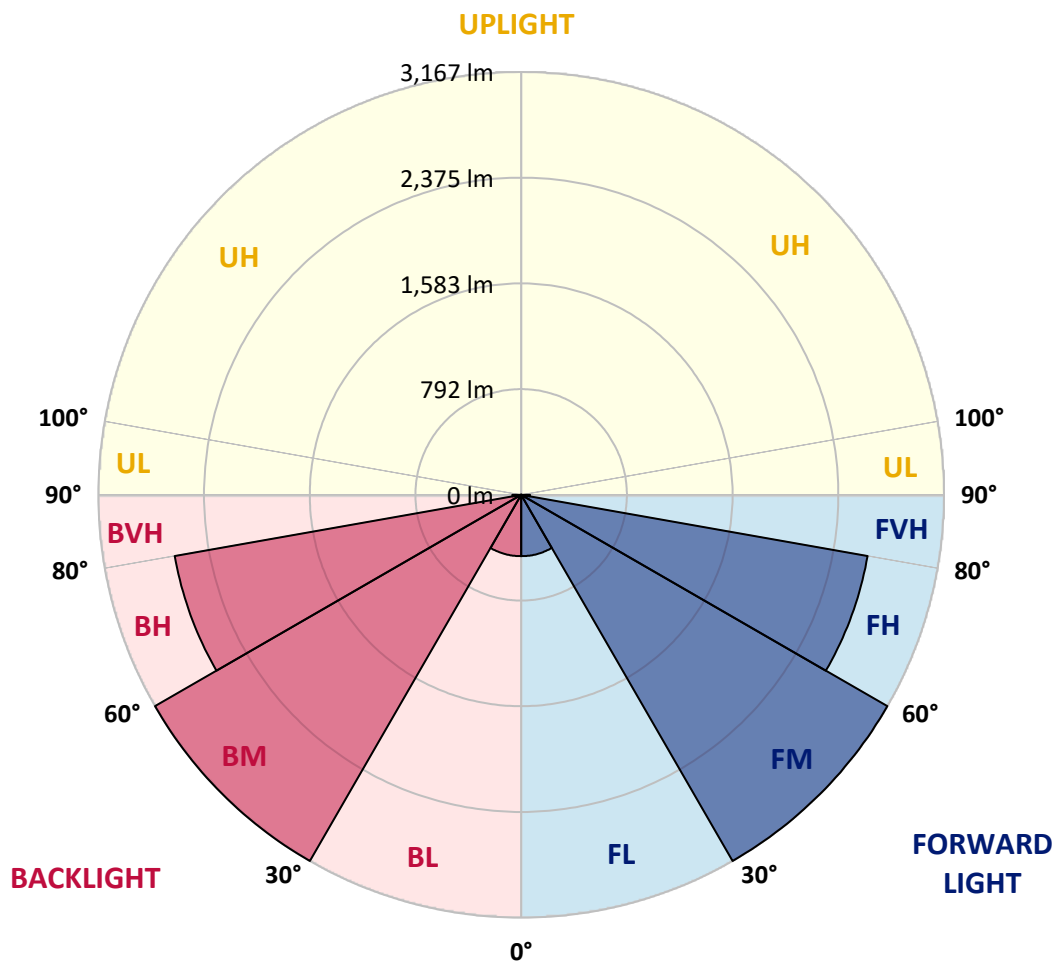
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	459.5	3.6			
FM (30°-60°)	3166.9	25.0			
FH (60°-80°)	2634.7	20.8			G2/5000
FVH (80°-90°)	66.4	0.5			G1/100
BL (0°-30°)	459.5	3.6	B1/500		
BM (30°-60°)	3166.9	25.0	B3/5000		
BH (60°-80°)	2634.7	20.8	B4/5000		G2/5000
BVH (80°-90°)	66.4	0.5			G1/100
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°	840.1	840.1	840.1	840.1	840.1	840.1	840.1	840.1	840.1	840.1	840.1
2.5°	845.3	848.0	847.3	846.0	846.0	846.0	845.3	843.4	842.7	844.0	845.3
5°	864.9	864.9	864.9	864.9	863.6	863.6	862.3	861.0	861.7	860.3	859.7
7.5°	895.1	893.0	893.0	892.5	892.4	891.1	889.1	886.5	887.3	886.5	885.9
10°	930.4	931.0	929.1	931.0	927.8	927.1	924.5	923.2	922.5	920.6	920.6
12.5°	972.8	971.0	971.0	969.7	968.4	967.0	963.1	962.4	959.8	958.5	956.5
15°	1012.8	1012.1	1009.5	1006.9	1006.2	1004.9	1000.4	997.8	997.0	993.9	991.3
17.5°	1052.7	1051.4	1048.1	1046.8	1044.2	1042.2	1038.3	1034.4	1032.4	1031.1	1027.8
20°	1095.3	1094.0	1090.6	1088.0	1084.8	1082.1	1076.3	1072.9	1071.1	1069.0	1066.4
22.5°	1148.2	1145.7	1140.4	1135.8	1128.6	1126.0	1118.1	1113.5	1110.3	1107.6	1106.3
25°	1205.8	1206.4	1199.3	1193.3	1184.9	1177.7	1167.8	1162.6	1159.4	1156.7	1156.1
27.5°	1277.8	1278.4	1271.9	1263.4	1250.2	1242.4	1229.4	1222.9	1220.8	1218.2	1217.6
30°	1391.5	1385.7	1374.6	1360.8	1349.0	1332.1	1313.1	1306.6	1300.0	1298.1	1298.1
32.5°	1600.9	1597.8	1588.5	1554.5	1538.8	1503.5	1470.1	1451.2	1429.6	1419.2	1412.6
35°	1747.5	1746.2	1739.0	1727.3	1717.4	1710.2	1690.6	1687.3	1683.4	1683.4	1688.6
37.5°	1855.5	1847.6	1846.3	1848.3	1845.6	1847.0	1862.7	1884.3	1902.5	1911.8	1910.4
40°	2015.1	2004.0	2010.5	2006.0	2000.0	1998.8	2003.9	2012.5	2021.0	2021.0	2019.0
42.5°	2223.8	2229.0	2231.6	2212.7	2200.2	2197.0	2209.5	2206.8	2215.3	2212.1	2203.5
45°	2534.0	2530.7	2526.2	2503.3	2483.6	2467.9	2471.1	2466.6	2467.2	2462.0	2455.5
47.5°	2846.6	2857.9	2838.9	2827.7	2805.4	2794.3	2803.6	2795.7	2810.7	2783.3	2770.2
50°	3150.3	3158.2	3151.6	3135.8	3135.8	3151.6	3162.7	3177.1	3198.0	3166.6	3119.5
52.5°	3398.9	3405.4	3415.3	3428.3	3460.4	3493.8	3540.9	3591.3	3631.1	3625.3	3571.6
55°	3550.7	3558.5	3574.9	3620.0	3677.6	3765.2	3871.9	3989.0	4080.6	4125.1	4085.9
57.5°	3601.7	3607.6	3652.1	3706.4	3796.0	3926.2	4104.9	4307.0	4483.0	4594.8	4577.2
60°	3590.0	3590.0	3635.1	3709.6	3835.3	4008.0	4260.5	4540.6	4810.1	4977.6	4952.8
62.5°	3466.3	3472.8	3537.6	3627.2	3779.0	3985.7	4286.7	4644.6	4967.1	5175.2	5154.9
65°	3195.4	3200.0	3270.0	3376.6	3546.1	3790.7	4119.8	4516.4	4886.0	5086.2	5048.3
67.5°	2757.7	2762.3	2819.2	2939.6	3118.9	3374.7	3729.9	4166.4	4528.2	4686.5	4572.6
70°	2193.7	2206.8	2243.5	2371.0	2507.1	2757.7	3084.9	3521.2	3862.7	4012.6	3886.9
72.5°	1495.0	1528.4	1572.8	1686.1	1816.2	2024.3	2284.7	2652.4	2926.5	3099.9	2988.0
75°	842.0	889.1	902.9	988.7	1095.8	1260.1	1450.5	1714.2	1990.9	2131.5	1996.8
77.5°	363.7	402.4	419.4	459.3	543.1	611.7	727.5	905.5	1119.4	1218.2	1056.7
80°	179.3	188.5	195.6	208.0	231.6	253.9	308.8	386.6	474.3	496.6	395.2
82.5°	138.7	145.2	157.7	167.4	173.4	179.3	184.5	195.0	203.4	208.0	196.3
85°	97.5	106.0	119.8	130.8	137.4	142.0	146.6	149.8	142.0	129.5	136.0
87.5°	25.5	33.4	46.4	50.4	56.9	60.2	58.9	60.8	55.0	39.9	44.5
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°	840.1	840.1	840.1	840.1	840.1	840.1	840.1	840.1
2.5°	844.7	844.0	844.7	844.7	844.7	844.0	844.0	844.0
5°	859.7	859.7	860.4	859.0	859.0	859.7	859.0	858.4
7.5°	885.2	884.6	884.6	883.9	884.6	883.9	883.9	883.3
10°	919.3	918.0	918.5	916.7	916.7	915.9	915.9	916.0
12.5°	955.9	953.9	954.6	952.6	949.3	950.0	950.7	950.0
15°	991.2	989.2	987.4	986.0	984.0	984.7	984.7	984.0
17.5°	1027.2	1023.3	1022.6	1020.7	1020.0	1019.9	1020.0	1020.7
20°	1064.5	1061.9	1061.2	1059.3	1058.6	1060.5	1061.2	1059.9
22.5°	1104.4	1103.1	1104.4	1103.1	1105.0	1106.4	1107.1	1105.7
25°	1154.8	1153.5	1155.4	1160.0	1162.6	1163.9	1167.3	1165.9
27.5°	1219.5	1218.2	1222.8	1229.4	1233.3	1239.8	1243.1	1244.4
30°	1303.3	1309.2	1311.7	1324.8	1327.4	1338.0	1338.0	1342.5
32.5°	1424.9	1436.1	1455.7	1476.0	1504.2	1524.5	1524.5	1534.9
35°	1691.9	1696.5	1711.5	1714.8	1720.8	1727.3	1720.8	1726.0
37.5°	1896.8	1876.5	1862.0	1841.7	1829.3	1829.3	1830.6	1829.3
40°	2001.4	1993.5	1987.0	1970.0	1967.4	1966.7	1966.7	1969.3
42.5°	2188.5	2169.5	2159.1	2144.7	2140.1	2138.8	2138.1	2139.5
45°	2431.8	2401.1	2373.0	2358.6	2346.2	2334.3	2338.3	2338.3
47.5°	2715.2	2667.4	2621.6	2596.8	2575.2	2565.4	2558.8	2556.9
50°	3059.9	2993.2	2934.3	2887.8	2856.5	2855.8	2859.2	2838.2
52.5°	3482.6	3377.3	3304.0	3241.2	3211.7	3208.6	3198.0	3186.3
55°	3951.1	3826.1	3705.0	3637.6	3599.1	3578.2	3565.7	3546.1
57.5°	4433.9	4265.7	4091.7	3983.8	3915.8	3868.7	3843.7	3832.7
60°	4806.2	4576.6	4346.9	4173.5	4060.3	3990.4	3947.2	3929.5
62.5°	4952.8	4641.3	4346.9	4119.3	3955.7	3858.8	3800.6	3775.1
65°	4778.1	4409.1	4074.1	3822.9	3640.3	3532.3	3468.9	3441.4
67.5°	4290.0	3964.1	3599.7	3349.8	3162.1	3055.5	2986.7	2966.4
70°	3596.5	3263.5	2915.4	2692.2	2524.8	2437.8	2366.5	2358.0
72.5°	2702.7	2415.5	2117.2	1932.7	1798.0	1654.0	1617.3	1635.6
75°	1732.5	1463.6	1198.0	1031.7	908.8	771.4	718.3	731.4
77.5°	820.5	635.3	458.6	354.6	297.7	254.5	243.4	236.8
80°	304.2	246.7	217.9	206.7	198.9	191.6	186.4	180.6
82.5°	196.9	192.4	186.4	184.5	178.6	169.5	152.5	145.2
85°	147.2	147.2	139.3	140.0	135.4	123.6	107.9	99.4
87.5°	43.2	38.6	35.3	32.7	32.0	28.7	20.9	18.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)