

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: P179987

Luminaire Tested: **ICM-E04-LED-E1-5MQ-7030**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P179987  
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-E04-LED-E1-5MQ-7030  
Description: ICON SITE MEDIUM LED LUMINAIRE  
(4) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE MEDIUM  
Light Source: (84) 3000K CCT, 70 CRI LEDs  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 10956.1 lumens  
Efficiency: N/A  
Efficacy: 112.7 lumens/watt  
Luminous Opening: Rectangular w/ Sides (W: 0.67' x L: 1' x H: 0.1')  
IES Classification: Type V - Short - Full Cutoff  
BUG Rating: B3 - U0 - G2

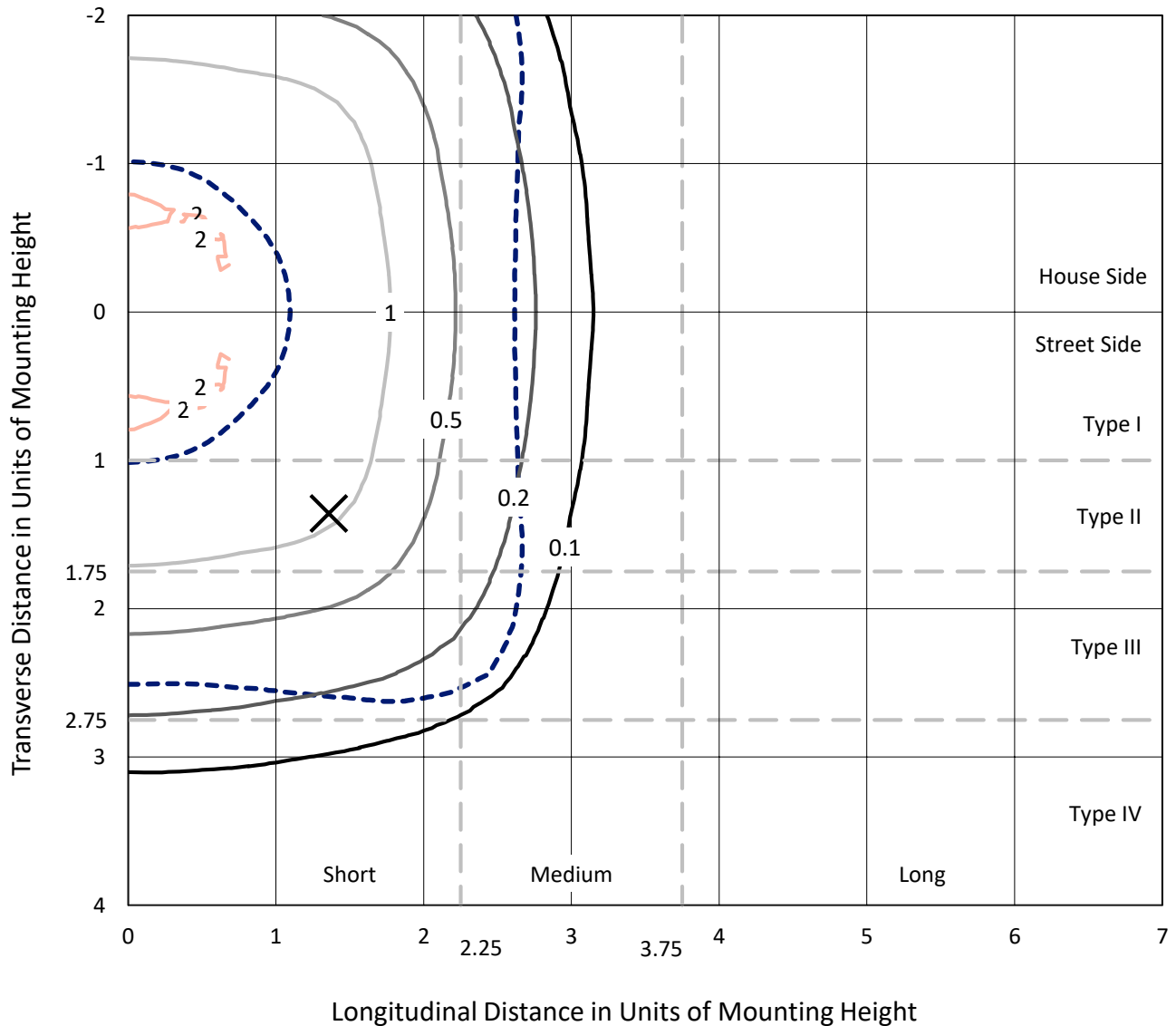
Input Watts (W): 97.2  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

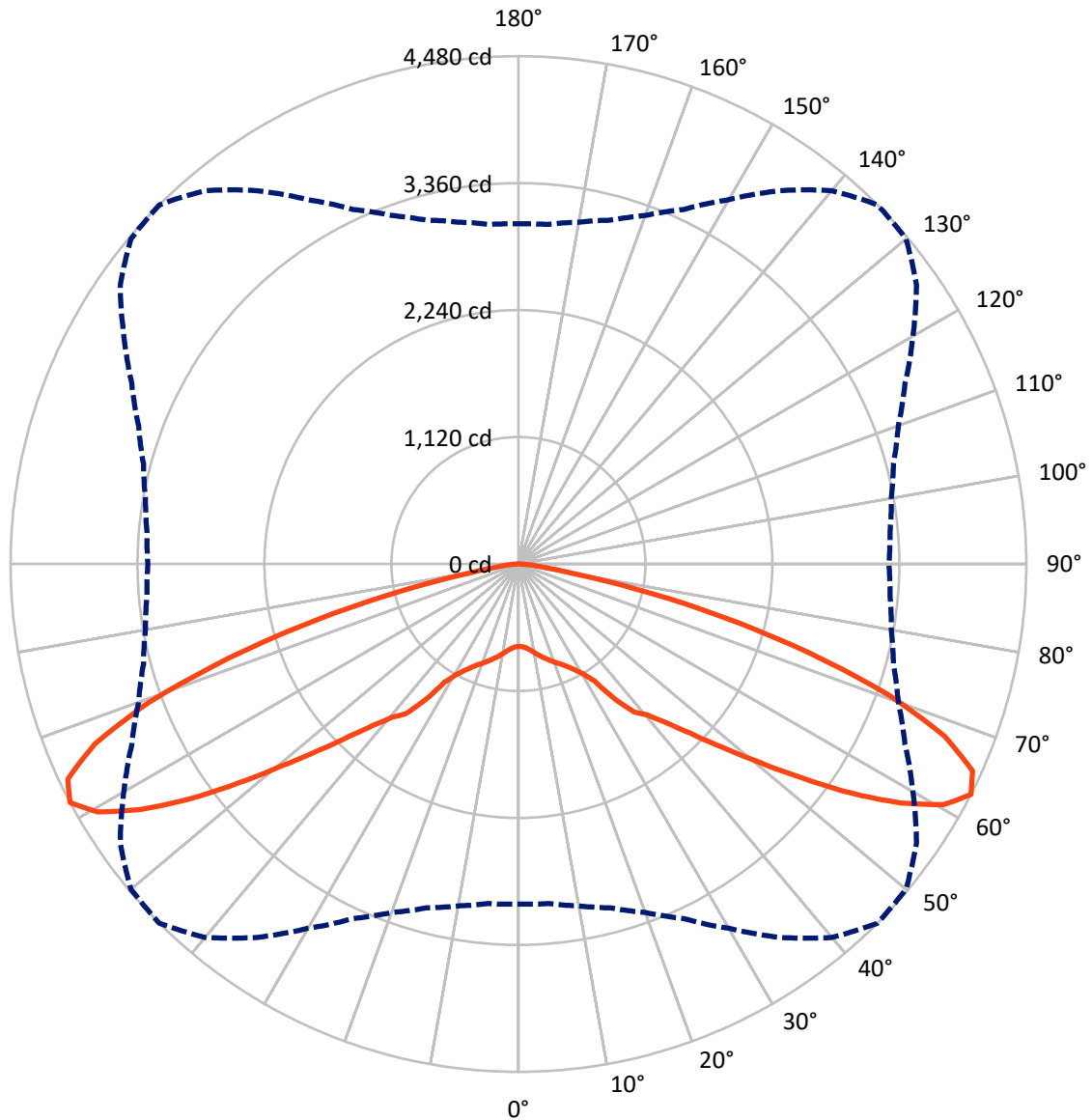
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 2.1 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	5478.0	0.0	5478.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	5478.0	0.0	5478.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	10956.1	0.0	10956.1
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	72.9	0.7
10°-20°	246.4	2.2
20°-30°	476.4	4.3
30°-40°	922.3	8.4
40°-50°	1665.4	15.2
50°-60°	2895.8	26.4
60°-70°	3287.5	30.0
70°-80°	1274.5	11.6
80°-90°	115.0	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°	10956.1	100.0
0°-180°	10956.1	100.0



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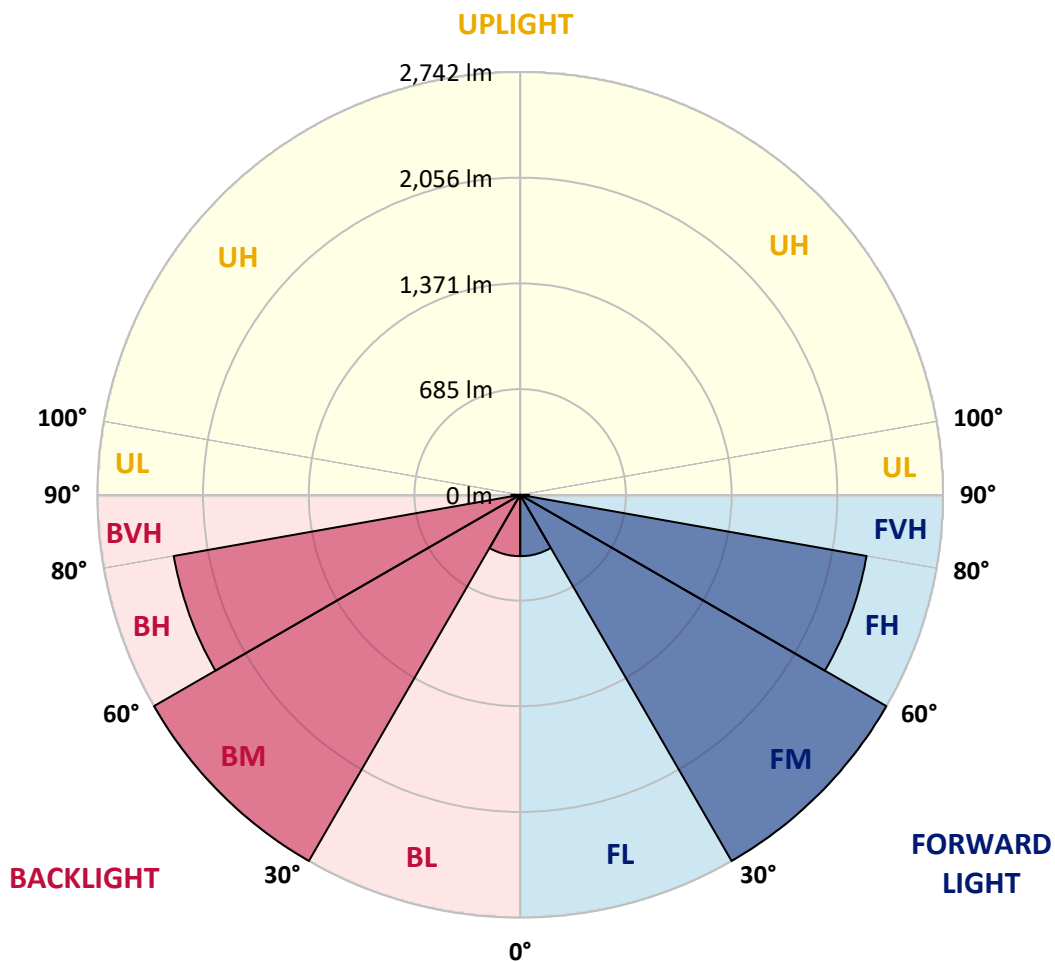
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	397.8	3.6			
FM (30°-60°)	2741.7	25.0			
FH (60°-80°)	2281.0	20.8			G2/5000
FVH (80°-90°)	57.5	0.5			G1/100
BL (0°-30°)	397.8	3.6	B1/500		
BM (30°-60°)	2741.7	25.0	B3/5000		
BH (60°-80°)	2281.0	20.8	B3/2500		G2/5000
BVH (80°-90°)	57.5	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G2**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	727.3	727.3	727.3	727.3	727.3	727.3	727.3	727.3	727.3	727.3	727.3
2.5°	731.8	734.1	733.5	732.4	732.4	732.5	731.8	730.1	729.5	730.6	731.8
5°	748.8	748.8	748.8	748.8	747.7	747.7	746.6	745.5	746.0	744.8	744.2
7.5°	774.9	773.2	773.2	772.7	772.7	771.4	769.8	767.4	768.0	767.4	766.9
10°	805.4	806.0	804.3	806.0	803.2	802.6	800.4	799.3	798.7	796.9	797.0
12.5°	842.2	840.6	840.6	839.4	838.3	837.2	833.8	833.2	830.9	829.8	828.1
15°	876.8	876.3	874.0	871.7	871.1	870.1	866.1	863.8	863.3	860.5	858.1
17.5°	911.4	910.2	907.4	906.2	904.0	902.3	898.9	895.4	893.8	892.7	889.9
20°	948.2	947.0	944.2	942.0	939.2	936.9	931.7	928.9	927.3	925.6	923.4
22.5°	994.1	991.8	987.4	983.3	977.1	974.8	968.0	964.1	961.2	958.9	957.8
25°	1043.9	1044.5	1038.3	1033.1	1025.9	1019.5	1011.0	1006.5	1003.7	1001.4	1000.8
27.5°	1106.2	1106.8	1101.1	1093.8	1082.4	1075.6	1064.3	1058.6	1056.9	1054.7	1054.1
30°	1204.8	1199.6	1190.1	1178.1	1168.0	1153.3	1136.8	1131.2	1125.4	1123.7	1123.7
32.5°	1386.1	1383.2	1375.3	1345.9	1332.3	1301.6	1272.8	1256.4	1237.6	1228.6	1222.9
35°	1512.9	1511.8	1505.5	1495.4	1486.9	1480.7	1463.6	1460.8	1457.4	1457.4	1462.0
37.5°	1606.3	1599.5	1598.4	1600.2	1597.9	1599.1	1612.7	1631.3	1647.1	1655.1	1654.0
40°	1744.6	1735.0	1740.7	1736.6	1731.5	1730.4	1734.9	1742.3	1749.7	1749.6	1748.0
42.5°	1925.2	1929.9	1932.1	1915.6	1904.8	1902.1	1912.8	1910.5	1918.0	1915.0	1907.7
45°	2193.8	2190.9	2187.0	2167.1	2150.2	2136.6	2139.4	2135.5	2136.0	2131.5	2125.8
47.5°	2464.6	2474.1	2457.7	2448.0	2428.9	2419.2	2427.1	2420.3	2433.3	2409.5	2398.2
50°	2727.4	2734.2	2728.4	2714.8	2714.9	2728.4	2738.1	2750.5	2768.7	2741.5	2700.7
52.5°	2942.5	2948.3	2956.8	2968.0	2995.7	3024.7	3065.5	3109.0	3143.6	3138.5	3092.1
55°	3074.0	3080.8	3094.9	3134.0	3183.8	3259.7	3352.0	3453.4	3532.8	3571.3	3537.3
57.5°	3118.2	3123.3	3161.8	3208.8	3286.3	3399.1	3553.7	3728.8	3881.1	3978.0	3962.7
60°	3107.9	3107.9	3147.0	3211.6	3320.4	3469.9	3688.6	3931.0	4164.3	4309.3	4287.8
62.5°	3000.9	3006.5	3062.6	3140.3	3271.6	3450.6	3711.2	4021.0	4300.3	4480.4	4462.8
65°	2766.4	2770.3	2831.0	2923.4	3070.0	3281.9	3566.7	3910.0	4230.0	4403.3	4370.4
67.5°	2387.5	2391.5	2440.8	2544.9	2700.1	2921.6	3229.2	3607.0	3920.2	4057.2	3958.7
70°	1899.2	1910.5	1942.2	2052.7	2170.5	2387.5	2670.7	3048.5	3344.2	3473.9	3365.1
72.5°	1294.3	1323.2	1361.7	1459.7	1572.4	1752.6	1978.0	2296.3	2533.6	2683.7	2586.8
75°	729.0	769.8	781.6	855.8	948.7	1090.9	1255.7	1484.0	1723.6	1845.4	1728.8
77.5°	315.0	348.4	363.2	397.6	470.1	529.6	629.9	784.0	969.2	1054.7	914.8
80°	155.2	163.2	169.3	180.1	200.6	219.7	267.4	334.7	410.6	430.0	342.1
82.5°	120.1	125.7	136.6	145.0	150.1	155.2	159.7	168.7	176.2	180.1	170.0
85°	84.4	91.7	103.6	113.3	118.9	122.9	126.9	129.7	122.9	112.2	117.8
87.5°	22.1	28.8	40.2	43.6	49.3	52.1	51.0	52.7	47.6	34.6	38.5
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°	727.3	727.3	727.3	727.3	727.3	727.3	727.3	727.3
2.5°	731.3	730.7	731.3	731.3	731.3	730.7	730.6	730.7
5°	744.3	744.3	744.8	743.7	743.7	744.3	743.6	743.2
7.5°	766.3	765.8	765.8	765.2	765.8	765.2	765.2	764.7
10°	795.8	794.7	795.3	793.5	793.5	792.9	792.9	793.0
12.5°	827.5	825.9	826.4	824.7	822.0	822.4	823.1	822.4
15°	858.1	856.4	854.7	853.6	851.9	852.5	852.5	851.9
17.5°	889.3	886.0	885.3	883.6	883.0	883.0	883.0	883.6
20°	921.6	919.3	918.7	917.0	916.5	918.1	918.7	917.6
22.5°	956.1	955.0	956.1	955.0	956.7	957.8	958.3	957.2
25°	999.7	998.5	1000.4	1004.3	1006.5	1007.6	1010.4	1009.4
27.5°	1055.8	1054.7	1058.6	1064.3	1067.7	1073.4	1076.2	1077.3
30°	1128.3	1133.4	1135.6	1147.0	1149.2	1158.3	1158.3	1162.3
32.5°	1233.7	1243.3	1260.3	1277.9	1302.2	1319.7	1319.8	1328.8
35°	1464.8	1468.8	1481.7	1484.6	1489.7	1495.4	1489.7	1494.2
37.5°	1642.1	1624.6	1612.1	1594.4	1583.7	1583.7	1584.8	1583.7
40°	1732.7	1725.9	1720.2	1705.5	1703.3	1702.7	1702.7	1704.9
42.5°	1894.7	1878.2	1869.2	1856.8	1852.8	1851.6	1851.0	1852.2
45°	2105.4	2078.8	2054.4	2041.9	2031.2	2021.0	2024.4	2024.4
47.5°	2350.6	2309.2	2269.7	2248.1	2229.4	2220.9	2215.3	2213.6
50°	2649.1	2591.4	2540.4	2500.2	2472.9	2472.5	2475.3	2457.1
52.5°	3015.0	2923.9	2860.5	2806.1	2780.6	2777.7	2768.8	2758.4
55°	3420.7	3312.4	3207.6	3149.3	3115.9	3097.7	3087.0	3070.0
57.5°	3838.6	3693.0	3542.4	3449.0	3390.0	3349.2	3327.7	3318.1
60°	4161.0	3962.1	3763.4	3613.2	3515.2	3454.5	3417.1	3402.0
62.5°	4287.8	4018.3	3763.4	3566.2	3424.6	3340.8	3290.3	3268.3
65°	4136.6	3817.1	3527.1	3309.6	3151.6	3058.1	3003.2	2979.4
67.5°	3714.1	3431.9	3116.5	2900.1	2737.5	2645.2	2585.7	2568.2
70°	3113.6	2825.3	2523.9	2330.8	2185.9	2110.5	2048.8	2041.4
72.5°	2339.9	2091.2	1832.9	1673.2	1556.5	1431.9	1400.2	1416.1
75°	1499.9	1267.2	1037.1	893.2	786.8	667.8	622.0	633.3
77.5°	710.3	550.0	397.0	307.0	257.7	220.3	210.7	205.0
80°	263.4	213.6	188.7	179.0	172.2	166.0	161.5	156.4
82.5°	170.4	166.5	161.4	159.7	154.6	146.7	131.9	125.8
85°	127.4	127.4	120.7	121.2	117.2	107.0	93.4	86.1
87.5°	37.4	33.5	30.6	28.3	27.7	24.9	18.1	15.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)