

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: P179993

Luminaire Tested: **ICM-F04-LED-E1-5MQ**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P179993  
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-F04-LED-E1-5MQ  
Description: ICON SITE MEDIUM LED LUMINAIRE  
(4) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE MEDIUM  
Light Source: (28) 4000K CCT, 70 CRI LEDs  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9902.6 lumens  
Efficiency: N/A  
Efficacy: 96.9 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

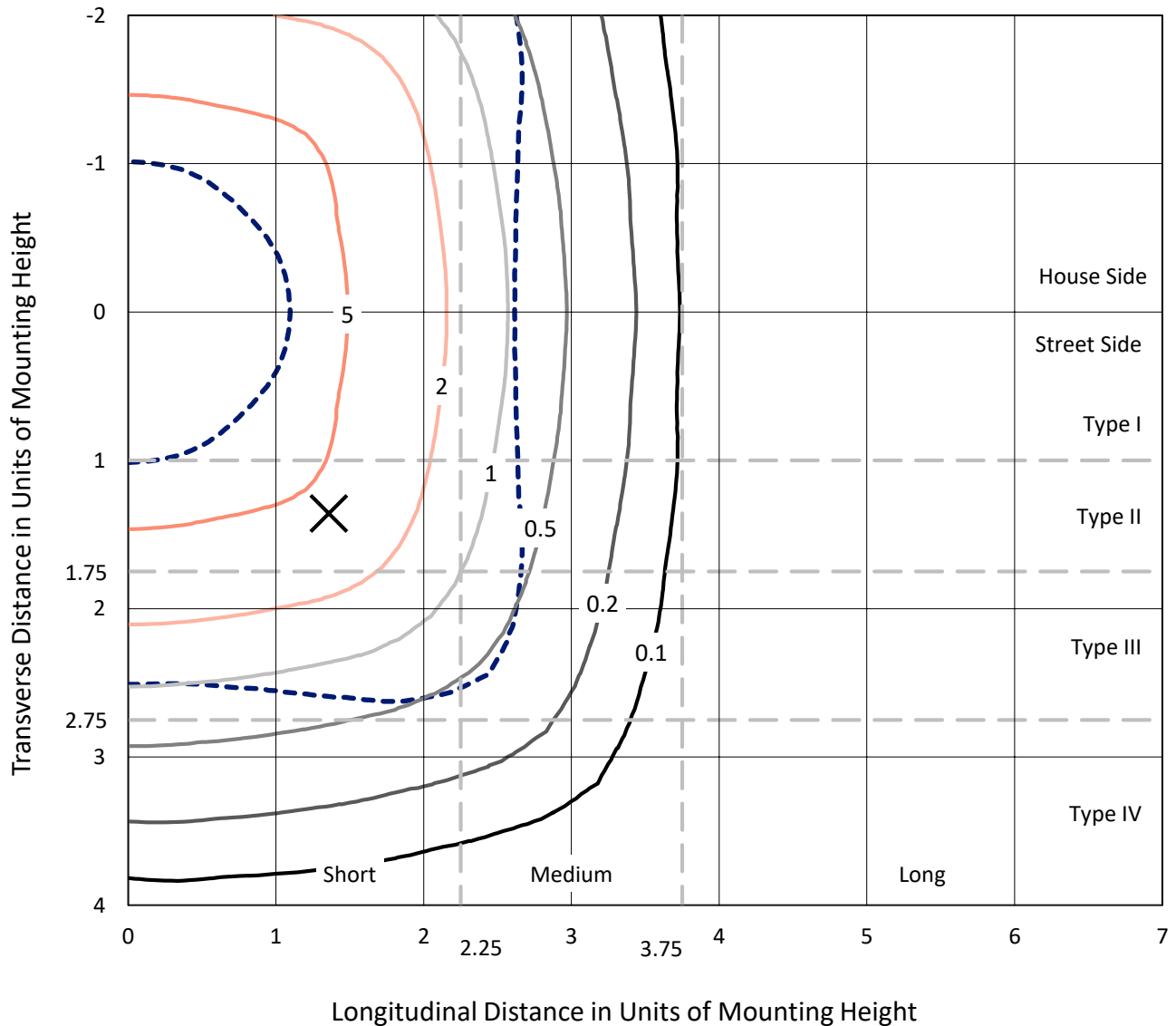
Input Watts (W): 102.2  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

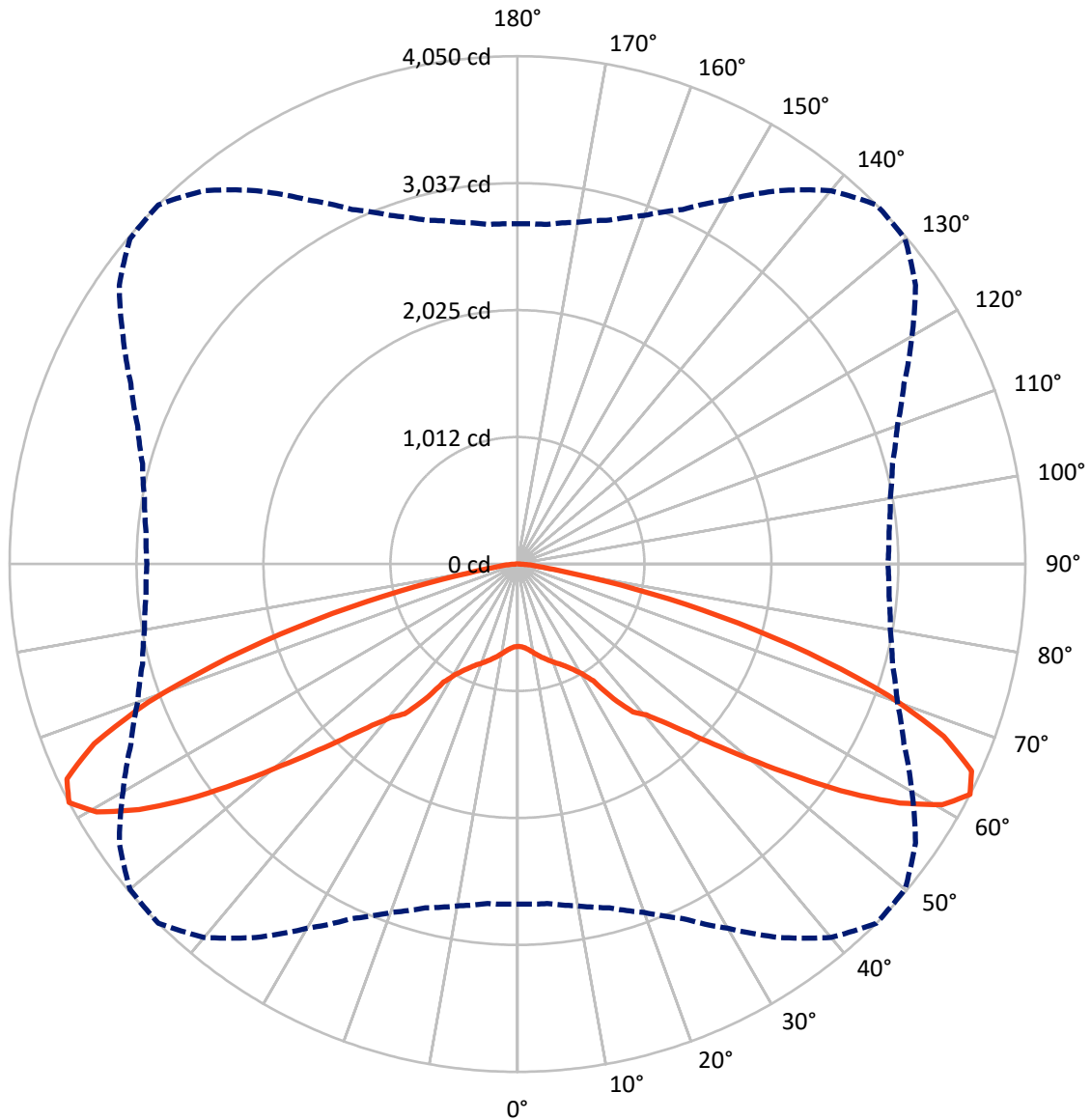
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 7.4 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	4951.3	0.0	4951.3
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	4951.3	0.0	4951.3
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	9902.6	0.0	9902.6
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	65.9	0.7
10°-20°	222.7	2.2
20°-30°	430.6	4.3
30°-40°	833.6	8.4
40°-50°	1505.2	15.2
50°-60°	2617.3	26.4
60°-70°	2971.4	30.0
70°-80°	1152.0	11.6
80°-90°	103.9	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°	9902.6	100.0
0°-180°	9902.6	100.0



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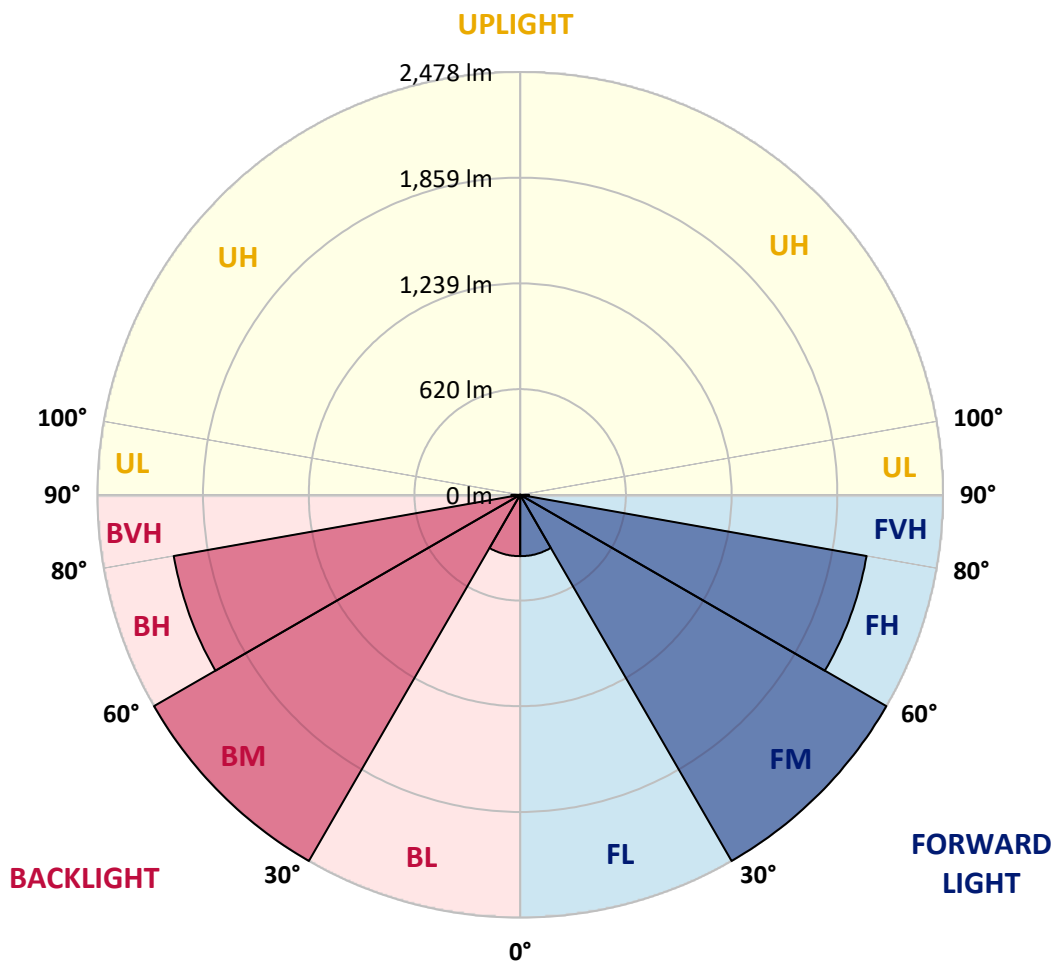
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	359.6	3.6			
FM (30°-60°)	2478.1	25.0			
FH (60°-80°)	2061.7	20.8			G2/5000
FVH (80°-90°)	52.0	0.5			G1/100
BL (0°-30°)	359.6	3.6	B1/500		
BM (30°-60°)	2478.1	25.0	B2/2500		
BH (60°-80°)	2061.7	20.8	B3/2500		G2/5000
BVH (80°-90°)	52.0	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°	657.3	657.3	657.3	657.3	657.3	657.3	657.3	657.3	657.3	657.3	657.3
2.5°	661.4	663.4	663.0	662.0	662.0	662.0	661.4	659.9	659.4	660.5	661.4
5°	676.8	676.8	676.8	676.8	675.7	675.7	674.8	673.7	674.2	673.2	672.7
7.5°	700.3	698.8	698.8	698.2	698.2	697.3	695.7	693.7	694.1	693.8	693.2
10°	728.0	728.6	727.0	728.6	726.0	725.4	723.4	722.4	721.9	720.3	720.4
12.5°	761.3	759.8	759.8	758.7	757.8	756.7	753.6	753.1	751.1	750.0	748.5
15°	792.6	792.0	790.0	787.9	787.4	786.4	782.8	780.7	780.3	777.7	775.6
17.5°	823.7	822.7	820.1	819.2	817.1	815.5	812.5	809.4	807.8	806.9	804.3
20°	857.0	856.0	853.4	851.4	848.8	846.8	842.1	839.6	838.1	836.6	834.4
22.5°	898.5	896.5	892.3	888.7	883.2	881.1	875.0	871.4	868.8	866.8	865.7
25°	943.5	944.0	938.4	933.8	927.2	921.5	913.9	909.8	907.2	905.1	904.6
27.5°	999.8	1000.4	995.2	988.6	978.3	972.2	962.0	956.8	955.4	953.3	952.8
30°	1088.9	1084.3	1075.6	1064.8	1055.6	1042.3	1027.5	1022.3	1017.2	1015.6	1015.6
32.5°	1252.8	1250.2	1243.0	1216.4	1204.1	1176.5	1150.3	1135.5	1118.6	1110.4	1105.3
35°	1367.5	1366.4	1360.8	1351.6	1343.9	1338.2	1323.0	1320.4	1317.2	1317.3	1321.3
37.5°	1451.9	1445.8	1444.8	1446.2	1444.2	1445.2	1457.6	1474.4	1488.8	1495.9	1494.9
40°	1576.8	1568.1	1573.2	1569.7	1565.0	1564.0	1568.1	1574.7	1581.4	1581.4	1579.9
42.5°	1740.1	1744.2	1746.2	1731.5	1721.7	1719.2	1728.9	1726.9	1733.5	1731.0	1724.3
45°	1982.9	1980.3	1976.8	1958.7	1943.5	1931.2	1933.7	1930.2	1930.6	1926.5	1921.3
47.5°	2227.5	2236.2	2221.4	2212.7	2195.3	2186.6	2193.7	2187.5	2199.4	2177.9	2167.6
50°	2465.1	2471.3	2466.1	2453.8	2453.8	2466.1	2474.8	2486.1	2502.4	2477.9	2440.9
52.5°	2659.6	2664.8	2672.4	2682.6	2707.7	2733.9	2770.7	2810.1	2841.4	2836.8	2794.8
55°	2778.4	2784.6	2797.3	2832.7	2877.7	2946.3	3029.8	3121.4	3193.0	3227.9	3197.2
57.5°	2818.2	2822.9	2857.7	2900.3	2970.3	3072.2	3212.0	3370.3	3507.9	3595.5	3581.6
60°	2809.1	2809.1	2844.5	2902.8	3001.1	3136.2	3333.8	3553.0	3763.9	3894.9	3875.6
62.5°	2712.4	2717.4	2768.2	2838.2	2957.0	3118.9	3354.3	3634.4	3886.7	4049.6	4033.7
65°	2500.4	2504.0	2558.7	2642.2	2774.8	2966.3	3223.8	3534.1	3823.3	3980.0	3950.3
67.5°	2158.0	2161.5	2206.0	2300.3	2440.6	2640.7	2918.7	3260.1	3543.3	3667.2	3578.1
70°	1716.7	1726.9	1755.5	1855.4	1961.9	2157.9	2413.9	2755.4	3022.5	3139.8	3041.5
72.5°	1169.9	1195.9	1230.7	1319.3	1421.2	1584.0	1787.7	2075.5	2290.0	2425.7	2338.1
75°	658.9	695.7	706.4	773.6	857.5	986.1	1135.1	1341.4	1557.9	1667.9	1562.4
77.5°	284.7	314.9	328.2	359.4	424.9	478.7	569.3	708.6	875.9	953.3	826.8
80°	140.3	147.4	153.0	162.8	181.3	198.7	241.7	302.5	371.2	388.6	309.2
82.5°	108.6	113.7	123.3	131.1	135.6	140.3	144.4	152.6	159.2	162.8	153.6
85°	76.3	83.0	93.7	102.4	107.5	111.1	114.7	117.2	111.2	101.4	106.5
87.5°	20.0	26.0	36.4	39.4	44.5	47.1	46.0	47.6	43.0	31.3	34.8
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°	657.3	657.3	657.3	657.3	657.3	657.3	657.3	657.3
2.5°	660.9	660.4	660.9	660.9	660.9	660.5	660.5	660.5
5°	672.7	672.7	673.2	672.2	672.3	672.7	672.2	671.7
7.5°	692.7	692.2	692.2	691.7	692.2	691.7	691.7	691.2
10°	719.3	718.3	718.8	717.2	717.2	716.7	716.7	716.7
12.5°	747.9	746.4	747.0	745.4	742.9	743.4	743.8	743.4
15°	775.6	774.1	772.5	771.5	770.0	770.4	770.4	770.0
17.5°	803.7	800.7	800.2	798.7	798.1	798.1	798.1	798.6
20°	832.9	830.9	830.4	828.8	828.4	830.0	830.4	829.4
22.5°	864.2	863.2	864.2	863.2	864.7	865.7	866.2	865.2
25°	903.6	902.5	904.1	907.7	909.8	910.7	913.3	912.3
27.5°	954.2	953.3	956.8	962.0	965.0	970.1	972.8	973.8
30°	1019.8	1024.4	1026.4	1036.7	1038.7	1046.9	1046.9	1050.5
32.5°	1115.0	1123.7	1139.1	1155.0	1176.9	1192.8	1192.8	1201.0
35°	1323.9	1327.4	1339.4	1341.9	1346.4	1351.5	1346.4	1350.5
37.5°	1484.1	1468.3	1457.0	1441.1	1431.5	1431.5	1432.5	1431.5
40°	1566.1	1560.0	1554.8	1541.5	1539.5	1539.0	1539.0	1541.0
42.5°	1712.5	1697.7	1689.5	1678.1	1674.6	1673.6	1673.1	1674.1
45°	1902.9	1878.9	1856.8	1845.6	1835.9	1826.6	1829.8	1829.8
47.5°	2124.7	2087.3	2051.4	2032.0	2015.1	2007.4	2002.2	2000.8
50°	2394.4	2342.2	2296.2	2259.7	2235.2	2234.7	2237.2	2220.9
52.5°	2725.1	2642.7	2585.3	2536.2	2513.2	2510.6	2502.4	2493.2
55°	3091.7	2993.9	2899.2	2846.5	2816.3	2799.8	2790.2	2774.8
57.5°	3469.5	3337.9	3201.8	3117.2	3064.0	3027.2	3007.7	2999.1
60°	3760.9	3581.1	3401.5	3265.8	3177.2	3122.4	3088.6	3074.8
62.5°	3875.6	3631.8	3401.5	3223.3	3095.3	3019.6	2974.0	2954.0
65°	3738.8	3450.1	3187.9	2991.4	2848.5	2764.1	2714.4	2692.9
67.5°	3356.9	3102.0	2816.8	2621.2	2474.3	2390.8	2337.1	2321.2
70°	2814.2	2553.6	2281.3	2106.7	1975.6	1907.5	1851.7	1845.1
72.5°	2114.9	1890.2	1656.7	1512.3	1406.9	1294.1	1265.5	1279.9
75°	1355.7	1145.2	937.4	807.4	711.1	603.5	562.1	572.4
77.5°	642.1	497.1	358.9	277.5	232.9	199.1	190.4	185.3
80°	238.0	193.0	170.4	161.8	155.6	150.0	145.9	141.3
82.5°	154.0	150.5	145.9	144.4	139.7	132.7	119.3	113.7
85°	115.2	115.2	109.0	109.6	106.0	96.7	84.5	77.9
87.5°	33.8	30.1	27.6	25.6	25.1	22.5	16.4	14.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)