

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: P140279

Luminaire Tested: **ECM-E03-LED-E1-5MQ-7030**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P140279  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33686)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: ECM-E03-LED-E1-5MQ-7030  
Description: EPIC CLASSICAL MEDIUM DECORATIVE LED LUMINAIRE  
(3) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE MEDIUM  
Light Source: (63) 3000K CCT, 70 CRI LEDs  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8367.5 lumens  
Efficiency: N/A  
Efficacy: 111.3 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type V - Short - Full Cutoff  
BUG Rating: B3 - U0 - G2

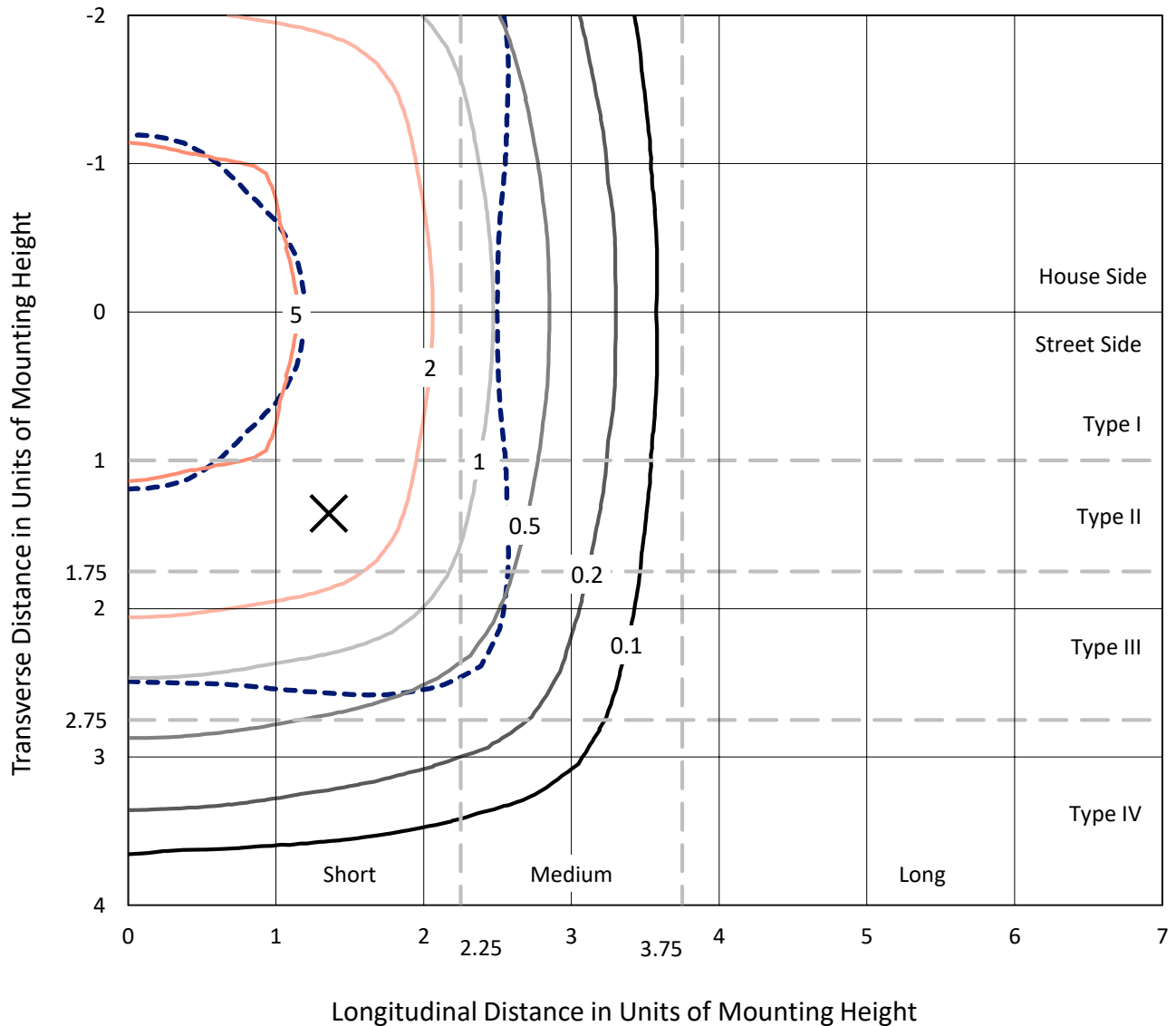
Input Watts (W): 75.2  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

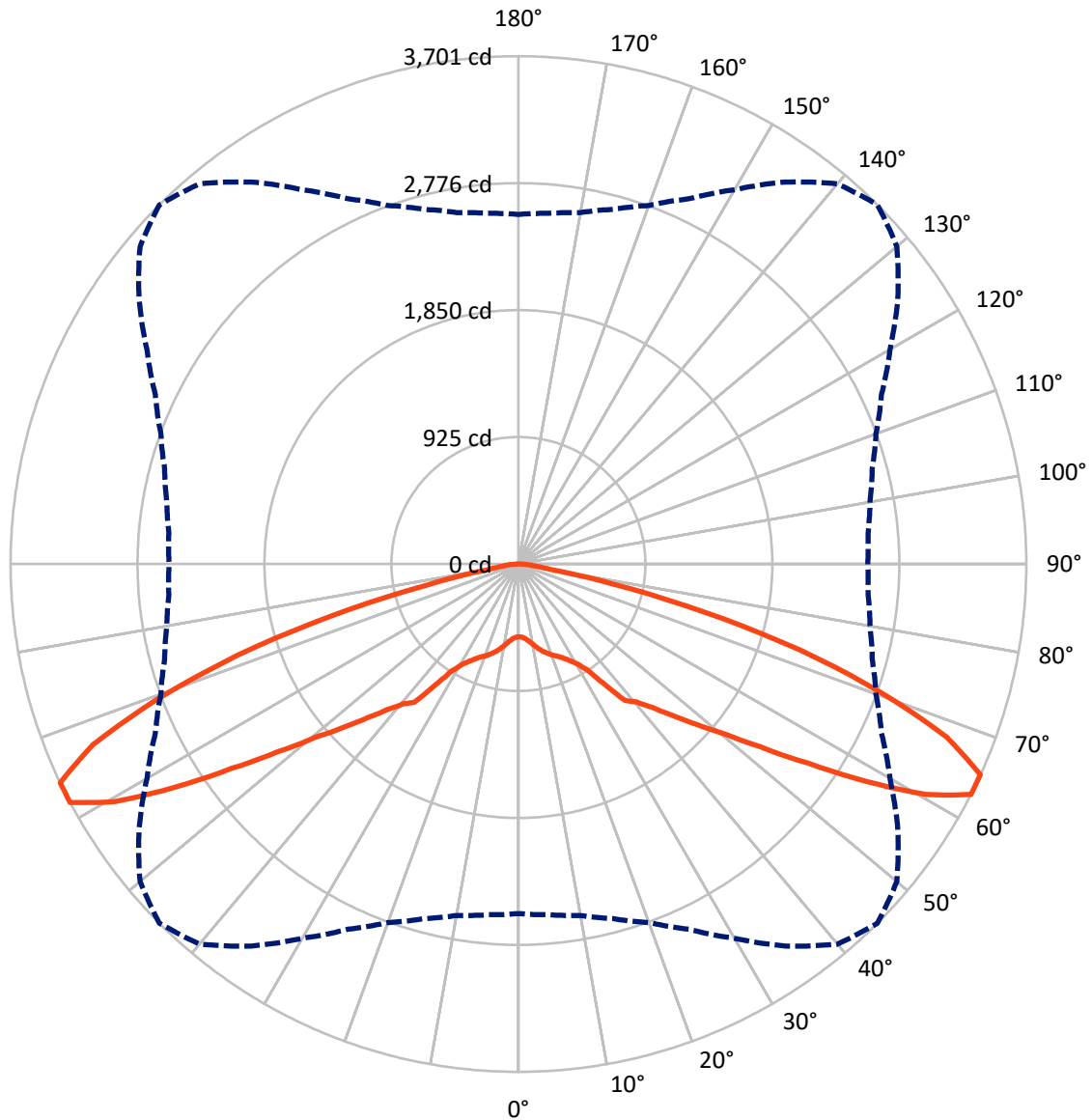
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 6.1 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	4183.7	0.0	4183.7
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	4183.7	0.0	4183.7
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	8367.5	0.0	8367.5
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	54.0	0.6
10°-20°	188.0	2.2
20°-30°	361.2	4.3
30°-40°	694.8	8.3
40°-50°	1209.2	14.5
50°-60°	2172.0	26.0
60°-70°	2662.5	31.8
70°-80°	939.0	11.2
80°-90°	86.8	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°	8367.5	100.0
0°-180°	8367.5	100.0



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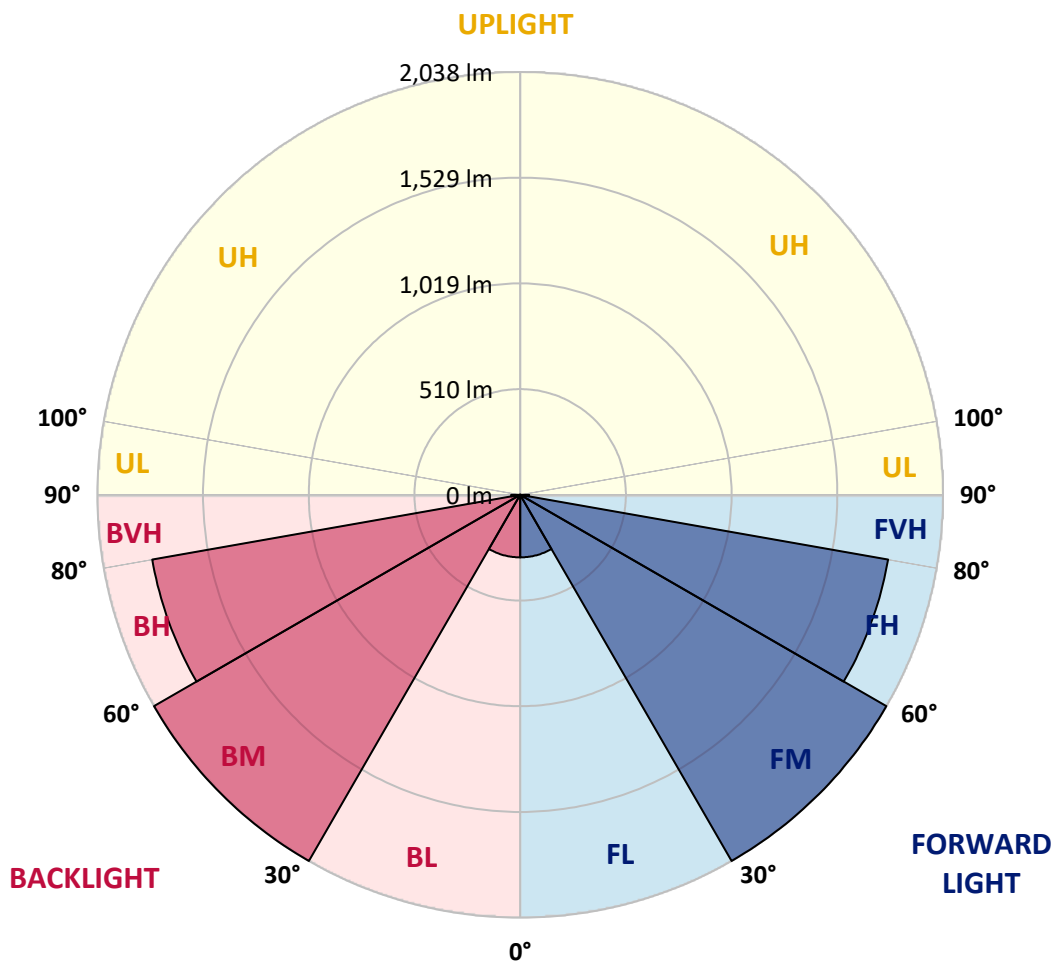
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	301.6	3.6			
FM	(30°-60°)	2038.0	24.4			
FH	(60°-80°)	1800.7	21.5			G2/5000
FVH	(80°-90°)	43.4	0.5			G1/100
BL	(0°-30°)	301.6	3.6	B1/500		
BM	(30°-60°)	2038.0	24.4	B2/2500		
BH	(60°-80°)	1800.7	21.5	B3/2500		G2/5000
BVH	(80°-90°)	43.4	0.5			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: 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°	530.7	530.7	530.7	530.7	530.7	530.7	530.7	530.7	530.7	530.7	530.7
2.5°	537.0	537.0	536.1	535.2	535.2	535.2	534.3	534.3	535.2	533.4	533.4
5°	550.8	551.7	550.8	549.8	548.9	548.9	548.0	548.0	548.9	547.1	546.2
7.5°	576.3	577.2	575.4	574.5	573.6	572.7	571.8	570.8	571.8	569.0	569.0
10°	609.2	609.2	609.2	605.6	605.6	602.8	601.9	600.1	601.0	598.2	598.2
12.5°	642.1	642.1	641.2	639.3	638.4	636.6	634.8	634.8	633.0	629.3	627.5
15°	671.3	672.2	671.3	668.6	667.7	664.9	664.9	663.1	660.4	658.5	656.7
17.5°	698.7	699.6	696.9	696.0	693.2	691.4	689.6	688.7	686.8	684.1	683.2
20°	725.2	724.3	721.5	717.9	716.1	714.2	712.4	711.5	710.6	708.8	708.8
22.5°	750.8	750.8	748.0	742.6	738.9	737.1	734.3	732.5	730.7	729.8	731.6
25°	789.1	788.2	782.7	777.3	770.9	765.4	761.7	760.8	759.0	759.0	759.9
27.5°	838.5	836.6	828.4	821.1	813.8	806.5	801.9	798.3	797.4	796.4	796.4
30°	900.6	897.8	890.5	881.4	873.2	864.0	854.9	852.2	847.6	843.9	850.3
32.5°	1019.3	1021.1	1006.5	988.2	970.0	952.6	937.1	925.2	917.9	918.8	918.8
35°	1149.9	1150.8	1144.4	1137.1	1131.6	1121.6	1104.2	1089.6	1078.7	1066.8	1072.3
37.5°	1206.5	1207.4	1202.0	1201.1	1204.7	1211.1	1228.5	1241.2	1260.4	1263.2	1257.7
40°	1306.1	1301.5	1294.2	1292.4	1289.7	1298.8	1306.1	1312.5	1315.2	1320.7	1315.2
42.5°	1410.2	1408.4	1402.9	1396.5	1396.5	1398.3	1410.2	1420.3	1426.7	1427.6	1426.7
45°	1527.1	1524.4	1519.8	1518.9	1521.6	1529.9	1538.1	1550.9	1571.0	1571.9	1571.0
47.5°	1655.9	1657.7	1650.4	1653.2	1657.7	1671.4	1694.3	1715.3	1737.2	1745.4	1735.4
50°	1832.2	1825.8	1825.8	1823.0	1834.9	1855.0	1882.4	1907.1	1938.1	1945.4	1929.9
52.5°	2071.5	2057.8	2060.5	2053.2	2059.6	2077.9	2122.6	2161.0	2200.3	2219.4	2189.3
55°	2359.2	2336.4	2339.1	2346.4	2351.9	2382.9	2439.6	2483.4	2557.4	2563.8	2529.1
57.5°	2594.8	2588.4	2592.1	2609.4	2644.1	2698.0	2769.3	2875.2	2966.6	2988.5	2951.0
60°	2680.7	2685.2	2710.8	2756.5	2822.3	2918.2	3057.0	3222.3	3367.5	3411.4	3354.7
62.5°	2547.3	2565.6	2600.3	2676.1	2780.2	2936.4	3149.2	3398.6	3616.0	3700.9	3599.5
65°	2287.0	2298.9	2355.5	2420.4	2554.6	2733.7	2994.9	3319.1	3586.7	3699.1	3585.8
67.5°	1945.4	1968.3	2017.6	2098.0	2214.0	2395.7	2669.7	3001.3	3269.8	3368.4	3268.9
70°	1561.8	1571.9	1602.9	1666.0	1786.5	1947.3	2182.0	2478.8	2740.1	2802.2	2722.7
72.5°	1083.2	1103.3	1129.8	1187.4	1263.2	1399.3	1592.9	1811.2	2021.2	2150.0	2033.1
75°	466.7	440.2	498.7	556.2	649.4	775.4	927.1	1106.1	1314.3	1400.2	1285.1
77.5°	139.7	138.8	148.0	164.4	197.3	261.2	366.3	486.8	647.6	703.3	603.7
80°	114.2	117.8	121.5	125.1	128.8	133.3	141.6	165.3	202.8	239.3	194.5
82.5°	96.8	101.4	111.4	116.9	119.6	120.6	120.6	119.6	115.1	113.3	112.3
85°	73.1	80.4	94.1	102.3	102.3	102.3	102.3	99.6	93.2	82.2	91.3
87.5°	24.7	32.9	54.8	58.5	60.3	55.7	58.5	59.4	49.3	37.4	47.5
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°	530.7	530.7	530.7	530.7	530.7	530.7	530.7	530.7
2.5°	533.4	533.4	533.4	534.3	533.4	533.4	533.4	533.4
5°	547.1	546.2	547.1	546.2	547.1	547.1	546.2	547.1
7.5°	568.1	568.1	569.0	569.0	568.1	568.1	568.1	568.1
10°	596.4	594.6	595.5	595.5	595.5	594.6	594.6	593.7
12.5°	625.6	623.8	623.8	623.8	623.8	622.9	623.8	623.8
15°	653.0	651.2	649.4	649.4	650.3	651.2	651.2	650.3
17.5°	679.5	677.7	675.0	675.0	674.1	675.9	677.7	676.8
20°	706.0	705.1	700.5	700.5	700.5	702.4	703.3	706.0
22.5°	732.5	731.6	727.9	727.0	727.9	731.6	734.3	734.3
25°	760.8	762.6	761.7	761.7	763.6	769.0	771.8	775.4
27.5°	801.0	804.7	805.6	809.2	810.1	816.5	821.1	826.6
30°	853.1	859.5	863.1	869.5	874.1	877.7	884.1	888.7
32.5°	925.2	940.8	959.0	980.0	989.2	1005.6	1012.9	1014.7
35°	1091.5	1107.9	1123.4	1132.6	1128.9	1133.5	1133.5	1137.1
37.5°	1241.2	1224.8	1211.1	1208.4	1201.1	1198.3	1199.2	1202.0
40°	1310.7	1302.4	1297.0	1299.7	1296.0	1293.3	1295.1	1296.0
42.5°	1423.0	1410.2	1405.6	1404.7	1402.9	1404.7	1409.3	1407.5
45°	1554.5	1538.1	1531.7	1530.8	1528.0	1527.1	1528.9	1532.6
47.5°	1712.5	1692.4	1672.3	1666.0	1666.0	1660.5	1664.1	1658.6
50°	1906.2	1873.3	1852.3	1840.4	1833.1	1824.9	1832.2	1820.3
52.5°	2161.0	2114.4	2091.6	2076.0	2055.0	2056.0	2057.8	2053.2
55°	2482.5	2431.3	2386.6	2356.4	2343.7	2336.4	2334.5	2349.1
57.5°	2852.4	2762.0	2690.7	2637.8	2617.7	2590.3	2577.5	2577.5
60°	3204.0	3039.6	2898.1	2809.5	2743.7	2697.1	2666.1	2656.9
62.5°	3375.7	3126.4	2919.1	2772.9	2668.8	2602.1	2557.4	2545.5
65°	3301.8	2984.8	2741.0	2576.6	2456.0	2370.1	2318.1	2303.5
67.5°	3004.0	2672.5	2415.8	2250.5	2120.8	2027.6	1988.4	1971.9
70°	2494.4	2190.2	1967.4	1805.7	1670.5	1592.0	1538.1	1516.2
72.5°	1792.9	1561.8	1357.2	1218.4	1096.9	1055.8	982.8	975.5
75°	1059.5	858.5	689.6	583.6	474.9	415.6	381.8	345.2
77.5°	431.1	307.8	231.1	174.4	149.8	136.1	129.7	127.9
80°	147.0	131.5	124.2	121.5	117.8	116.0	111.4	107.8
82.5°	116.0	115.1	111.4	110.5	106.9	101.4	92.2	86.8
85°	96.8	95.0	90.4	89.5	86.8	79.5	69.4	63.0
87.5°	54.8	50.2	45.7	46.6	43.8	38.4	28.3	20.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)