

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: P140282

Luminaire Tested: **ECM-E03-LED-E1-5MQ-7060**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P140282  
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-7060  
Description: EPIC CLASSICAL MEDIUM DECORATIVE LED LUMINAIRE  
(3) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE MEDIUM  
Light Source: (63) 5700K CCT, 70 CRI LEDs  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9400.5 lumens  
Efficiency: N/A  
Efficacy: 125.0 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

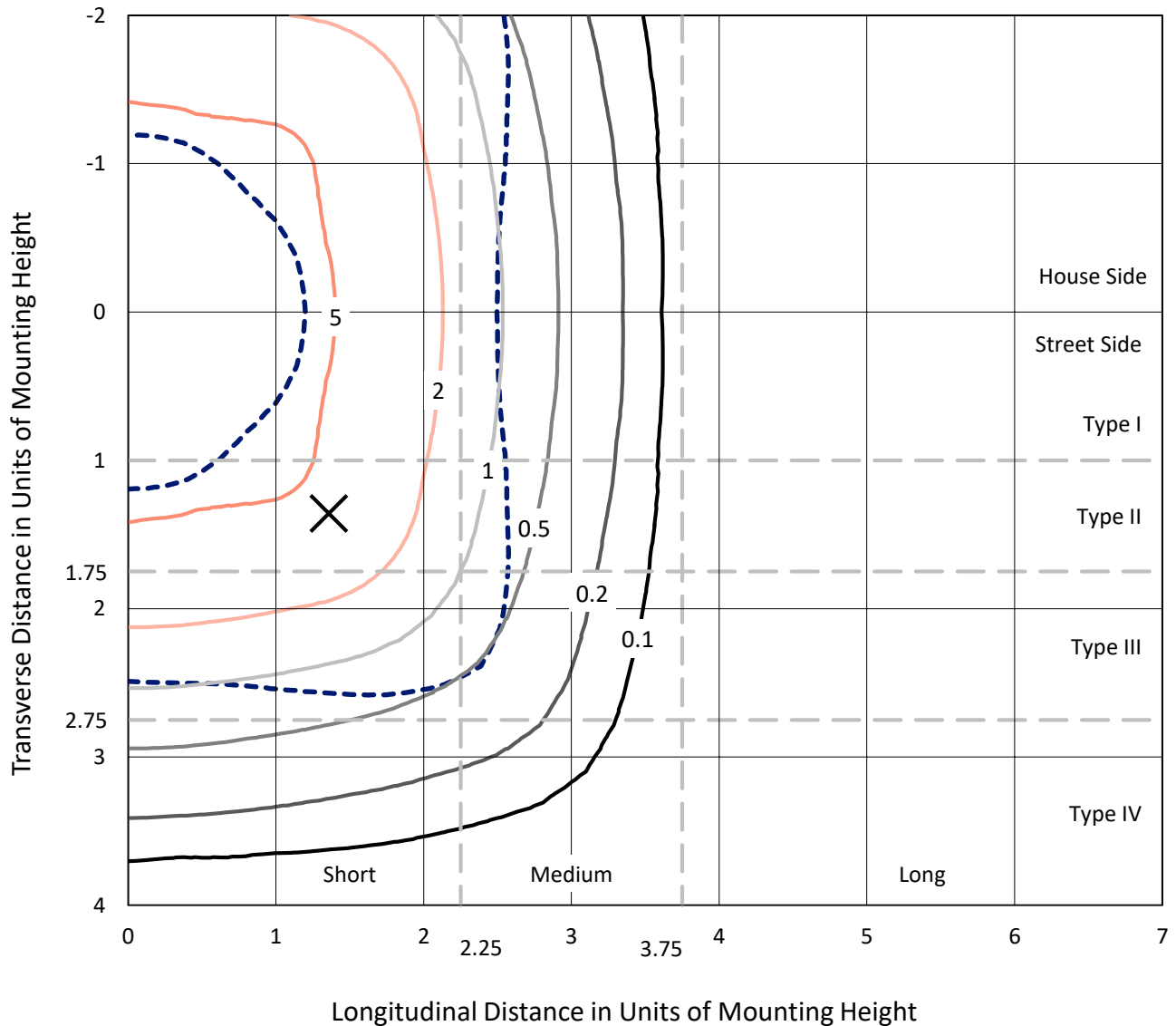
Input Watts (W): 75.2  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

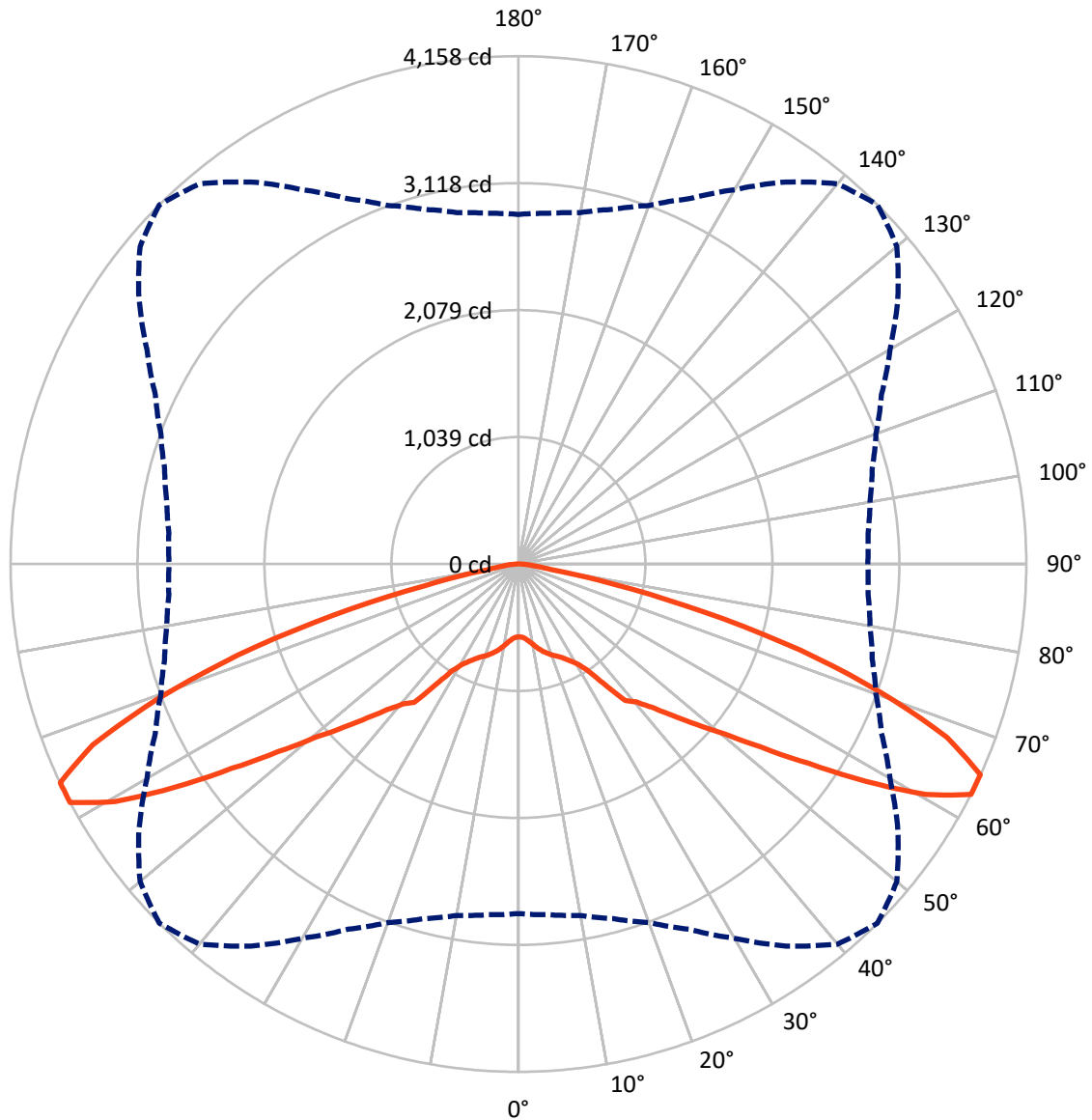
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 6.9 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	4700.2	0.0	4700.2
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	4700.2	0.0	4700.2
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	9400.5	0.0	9400.5
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	60.7	0.6
10°-20°	211.2	2.2
20°-30°	405.8	4.3
30°-40°	780.6	8.3
40°-50°	1358.5	14.5
50°-60°	2440.1	26.0
60°-70°	2991.2	31.8
70°-80°	1054.9	11.2
80°-90°	97.5	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°	9400.5	100.0
0°-180°	9400.5	100.0



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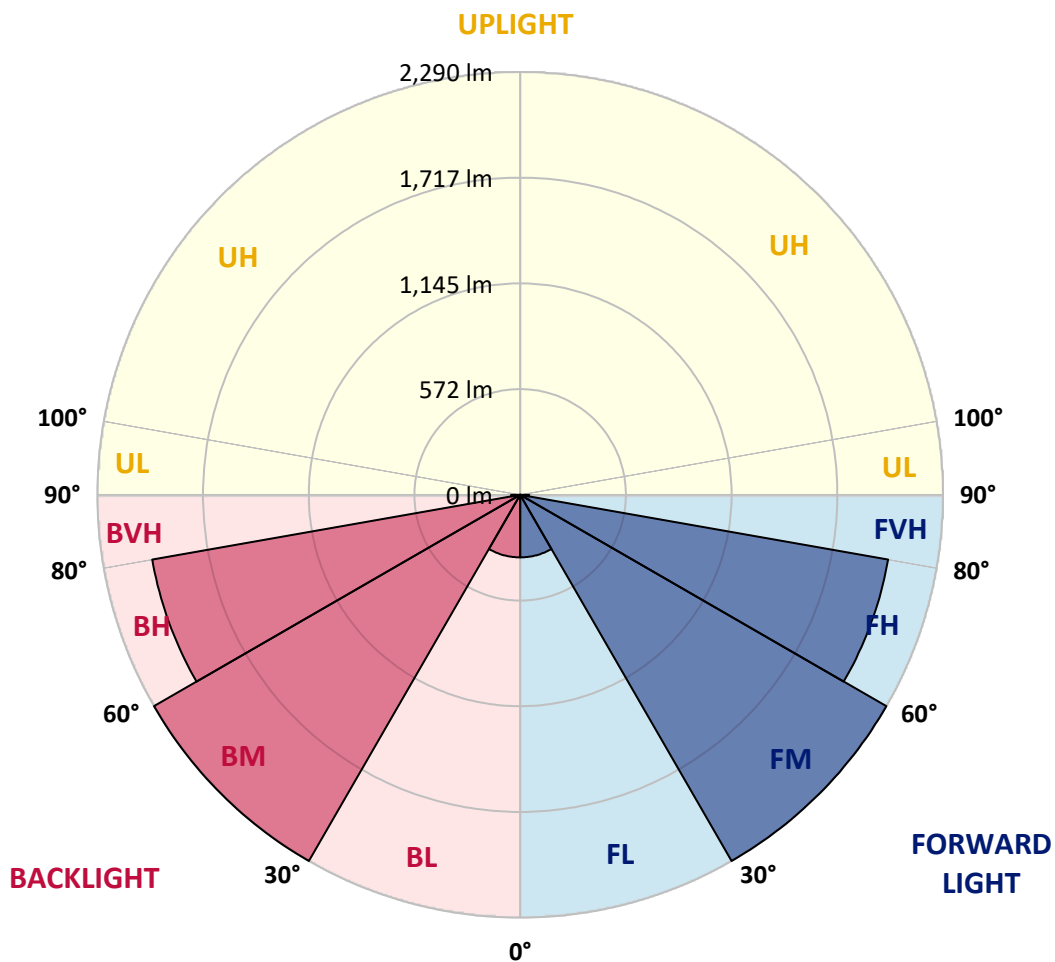
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	338.8	3.6			
FM (30°-60°)	2289.6	24.4			
FH (60°-80°)	2023.1	21.5			G2/5000
FVH (80°-90°)	48.8	0.5			G1/100
BL (0°-30°)	338.8	3.6	B1/500		
BM (30°-60°)	2289.6	24.4	B2/2500		
BH (60°-80°)	2023.1	21.5	B3/2500		G2/5000
BVH (80°-90°)	48.8	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°	596.2	596.2	596.2	596.2	596.2	596.2	596.2	596.2	596.2	596.2	596.2
2.5°	603.4	603.4	602.3	601.3	601.3	601.3	600.3	600.3	601.3	599.2	599.2
5°	618.7	619.8	618.7	617.7	616.7	616.7	615.7	615.7	616.7	614.6	613.6
7.5°	647.5	648.5	646.4	645.4	644.4	643.4	642.3	641.3	642.3	639.3	639.3
10°	684.4	684.4	684.4	680.3	680.3	677.2	676.2	674.2	675.2	672.1	672.1
12.5°	721.4	721.4	720.3	718.3	717.2	715.2	713.1	713.1	711.1	707.0	704.9
15°	754.2	755.2	754.2	751.1	750.1	747.0	747.0	745.0	741.9	739.8	737.8
17.5°	785.0	786.0	782.9	781.9	778.8	776.8	774.7	773.7	771.6	768.6	767.5
20°	814.7	813.7	810.6	806.5	804.5	802.4	800.4	799.3	798.3	796.3	796.3
22.5°	843.5	843.5	840.4	834.2	830.1	828.1	825.0	822.9	820.9	819.9	821.9
25°	886.6	885.5	879.4	873.2	866.0	859.9	855.8	854.7	852.7	852.7	853.7
27.5°	942.0	939.9	930.7	922.5	914.3	906.1	900.9	896.8	895.8	894.8	894.8
30°	1011.7	1008.7	1000.5	990.2	981.0	970.7	960.4	957.4	952.2	948.1	955.3
32.5°	1145.1	1147.2	1130.8	1110.2	1089.7	1070.2	1052.8	1039.4	1031.2	1032.3	1032.3
35°	1291.9	1292.9	1285.7	1277.5	1271.3	1260.1	1240.6	1224.1	1211.8	1198.5	1204.6
37.5°	1355.5	1356.5	1350.4	1349.3	1353.4	1360.6	1380.1	1394.5	1416.0	1419.1	1412.9
40°	1467.3	1462.2	1454.0	1451.9	1448.9	1459.1	1467.3	1474.5	1477.6	1483.7	1477.6
42.5°	1584.3	1582.3	1576.1	1568.9	1568.9	1571.0	1584.3	1595.6	1602.8	1603.8	1602.8
45°	1715.6	1712.6	1707.4	1706.4	1709.5	1718.7	1728.0	1742.3	1764.9	1765.9	1764.9
47.5°	1860.3	1862.4	1854.2	1857.3	1862.4	1877.8	1903.4	1927.0	1951.7	1960.9	1949.6
50°	2058.4	2051.2	2051.2	2048.1	2061.4	2084.0	2114.8	2142.5	2177.4	2185.6	2168.2
52.5°	2327.2	2311.8	2314.9	2306.7	2313.9	2334.4	2384.7	2427.8	2471.9	2493.4	2459.6
55°	2650.4	2624.8	2627.9	2636.1	2642.2	2677.1	2740.7	2790.0	2873.1	2880.3	2841.3
57.5°	2915.2	2908.0	2912.1	2931.6	2970.6	3031.1	3111.2	3230.2	3332.8	3357.4	3315.3
60°	3011.6	3016.8	3045.5	3096.8	3170.7	3278.4	3434.4	3620.1	3783.3	3832.5	3768.9
62.5°	2861.8	2882.3	2921.3	3006.5	3123.5	3298.9	3538.0	3818.1	4062.4	4157.8	4043.9
65°	2569.4	2582.7	2646.3	2719.2	2870.0	3071.1	3364.6	3728.9	4029.5	4155.7	4028.5
67.5°	2185.6	2211.3	2266.7	2357.0	2487.3	2691.5	2999.3	3371.8	3673.5	3784.3	3672.4
70°	1754.6	1765.9	1800.8	1871.6	2007.1	2187.7	2451.4	2784.9	3078.3	3148.1	3058.8
72.5°	1217.0	1239.5	1269.3	1333.9	1419.1	1572.0	1789.5	2034.8	2270.8	2415.5	2284.1
75°	524.3	494.6	560.3	624.9	729.6	871.2	1041.5	1242.6	1476.6	1573.0	1443.7
77.5°	157.0	156.0	166.2	184.7	221.6	293.5	411.5	546.9	727.5	790.1	678.3
80°	128.3	132.4	136.5	140.6	144.7	149.8	159.0	185.7	227.8	268.8	218.6
82.5°	108.8	113.9	125.2	131.3	134.4	135.4	135.4	134.4	129.3	127.2	126.2
85°	82.1	90.3	105.7	114.9	114.9	114.9	114.9	111.8	104.7	92.3	102.6
87.5°	27.7	36.9	61.6	65.7	67.7	62.6	65.7	66.7	55.4	42.1	53.4
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°	596.2	596.2	596.2	596.2	596.2	596.2	596.2	596.2
2.5°	599.2	599.2	599.2	600.3	599.2	599.2	599.2	599.2
5°	614.6	613.6	614.6	613.6	614.6	614.6	613.6	614.6
7.5°	638.2	638.2	639.3	639.3	638.2	638.2	638.2	638.2
10°	670.0	668.0	669.0	669.0	669.0	668.0	668.0	667.0
12.5°	702.9	700.8	700.8	700.8	700.8	699.8	700.8	700.8
15°	733.7	731.6	729.6	729.6	730.6	731.6	731.6	730.6
17.5°	763.4	761.4	758.3	758.3	757.3	759.3	761.4	760.3
20°	793.2	792.2	787.0	787.0	787.0	789.1	790.1	793.2
22.5°	822.9	821.9	817.8	816.8	817.8	821.9	825.0	825.0
25°	854.7	856.8	855.8	855.8	857.8	864.0	867.1	871.2
27.5°	899.9	904.0	905.0	909.1	910.2	917.3	922.5	928.6
30°	958.4	965.6	969.7	976.9	982.0	986.1	993.3	998.4
32.5°	1039.4	1056.9	1077.4	1101.0	1111.3	1129.7	1138.0	1140.0
35°	1226.2	1244.7	1262.1	1272.4	1268.3	1273.4	1273.4	1277.5
37.5°	1394.5	1376.0	1360.6	1357.5	1349.3	1346.3	1347.3	1350.4
40°	1472.5	1463.2	1457.1	1460.1	1456.0	1453.0	1455.0	1456.0
42.5°	1598.7	1584.3	1579.2	1578.2	1576.1	1578.2	1583.3	1581.2
45°	1746.4	1728.0	1720.8	1719.8	1716.7	1715.6	1717.7	1721.8
47.5°	1923.9	1901.4	1878.8	1871.6	1871.6	1865.5	1869.6	1863.4
50°	2141.5	2104.5	2080.9	2067.6	2059.4	2050.2	2058.4	2045.0
52.5°	2427.8	2375.4	2349.8	2332.3	2308.7	2309.8	2311.8	2306.7
55°	2789.0	2731.5	2681.2	2647.4	2633.0	2624.8	2622.7	2639.1
57.5°	3204.5	3102.9	3022.9	2963.4	2940.8	2910.0	2895.7	2895.7
60°	3599.6	3414.9	3255.8	3156.3	3082.4	3030.1	2995.2	2984.9
62.5°	3792.5	3512.4	3279.4	3115.3	2998.3	2923.4	2873.1	2859.8
65°	3709.4	3353.3	3079.3	2894.6	2759.2	2662.7	2604.3	2587.8
67.5°	3374.9	3002.4	2714.0	2528.3	2382.6	2278.0	2233.8	2215.4
70°	2802.3	2460.6	2210.2	2028.6	1876.7	1788.5	1728.0	1703.3
72.5°	2014.2	1754.6	1524.8	1368.8	1232.4	1186.2	1104.1	1095.9
75°	1190.3	964.5	774.7	655.7	533.6	466.9	428.9	387.9
77.5°	484.3	345.8	259.6	196.0	168.3	152.9	145.7	143.7
80°	165.2	147.8	139.6	136.5	132.4	130.3	125.2	121.1
82.5°	130.3	129.3	125.2	124.2	120.1	113.9	103.6	97.5
85°	108.8	106.7	101.6	100.6	97.5	89.3	78.0	70.8
87.5°	61.6	56.4	51.3	52.3	49.3	43.1	31.8	22.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)