

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: P140438

Luminaire Tested: **ECM-E03-LED-E1-5WQ-8030**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P140438  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33687)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: ECM-E03-LED-E1-5WQ-8030  
Description: EPIC CLASSICAL MEDIUM DECORATIVE LED LUMINAIRE  
(3) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE WIDE  
Light Source: (63) 3000K CCT, 80 CRI LEDs  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7563.9 lumens  
Efficiency: N/A  
Efficacy: 100.6 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type V - Short - Semi-Cutoff  
BUG Rating: B3 - U0 - G2

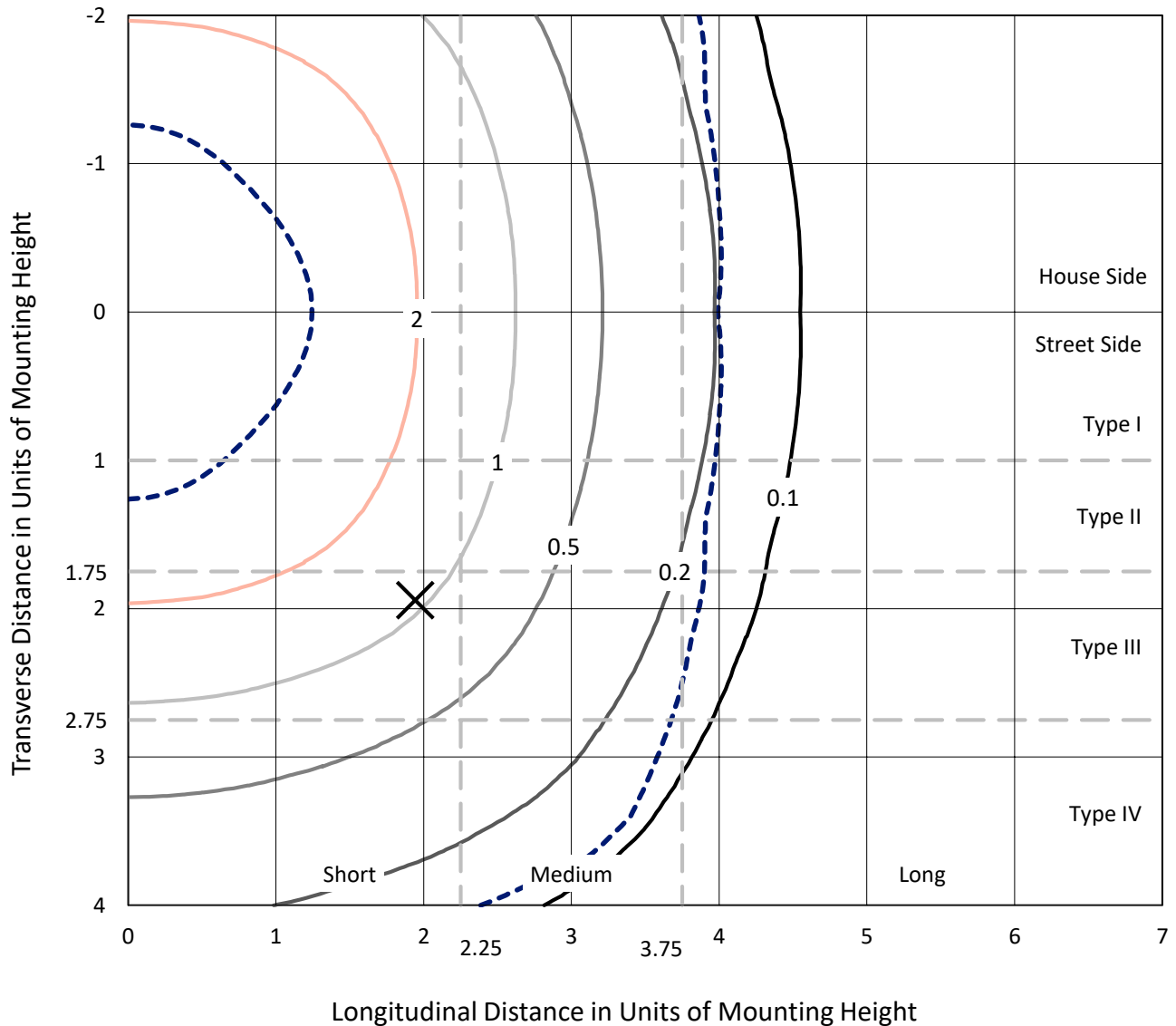
Input Watts (W): 75.2  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

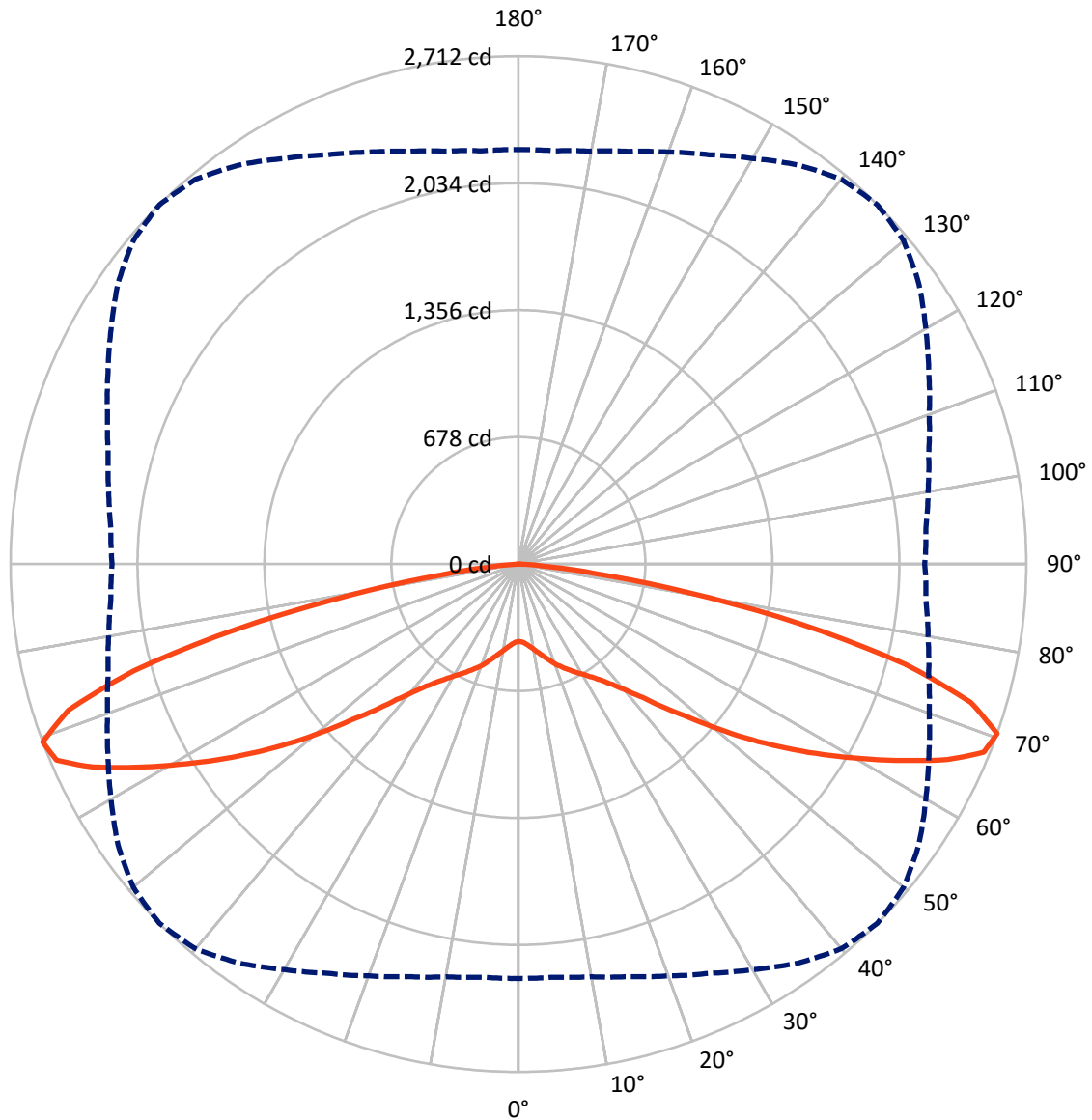
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 4.7 fc  
 Type V - Short - Semi-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral    - - - Horizontal Cone Through 70-Deg Vertical

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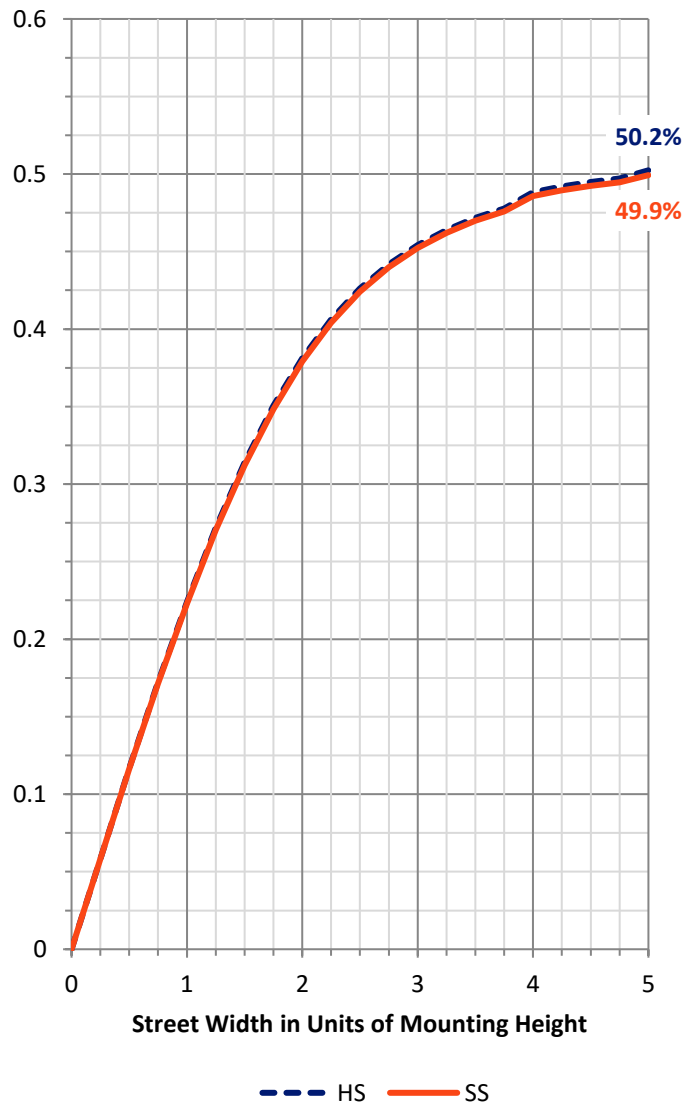
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3781.9	0.0	3781.9
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	3781.9	0.0	3781.9
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	7563.9	0.0	7563.9
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	41.9	0.6
10°-20°	146.5	1.9
20°-30°	287.8	3.8
30°-40°	476.2	6.3
40°-50°	833.6	11.0
50°-60°	1486.8	19.7
60°-70°	2295.4	30.3
70°-80°	1817.0	24.0
80°-90°	178.8	2.4
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°	7563.9	100.0
0°-180°	7563.9	100.0



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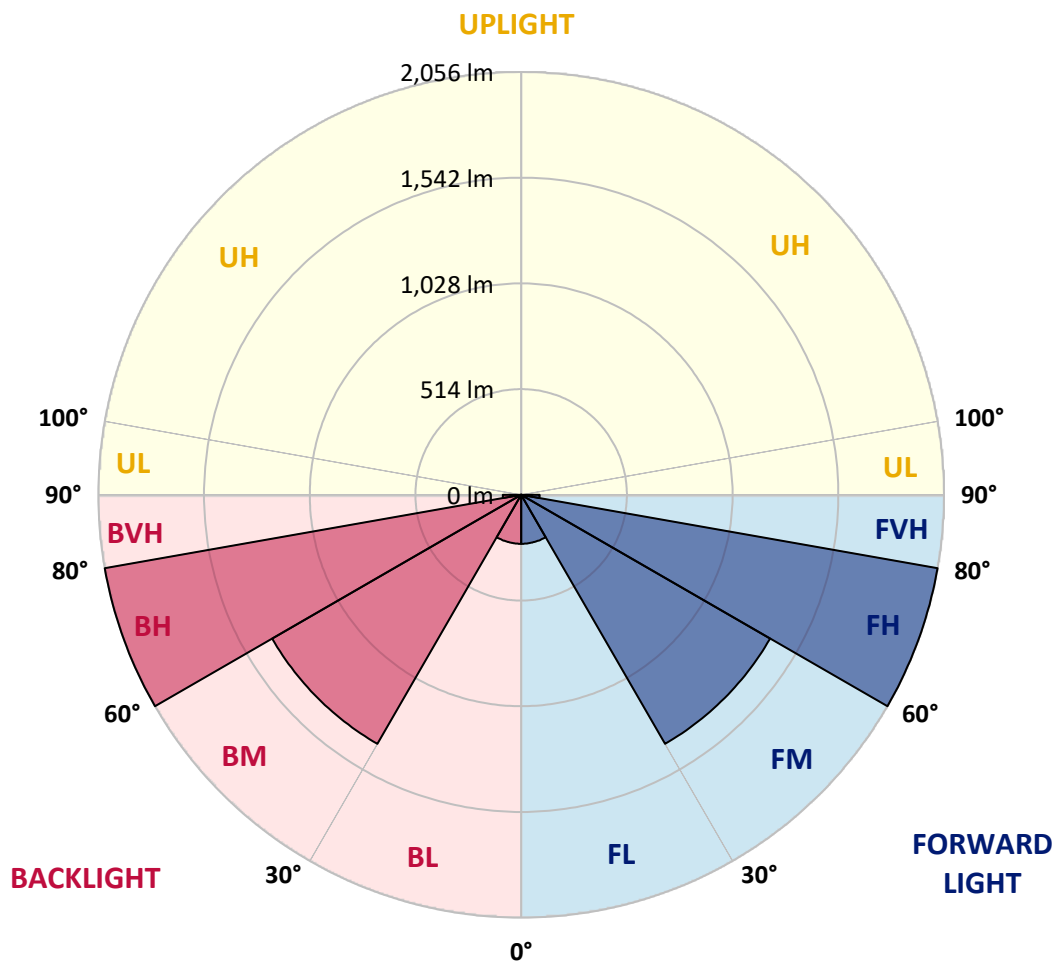
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	238.1	3.1			
FM (30°-60°)	1398.3	18.5			
FH (60°-80°)	2056.2	27.2			G2/5000
FVH (80°-90°)	89.4	1.2			G1/100
BL (0°-30°)	238.1	3.1	B1/500		
BM (30°-60°)	1398.3	18.5	B2/2500		
BH (60°-80°)	2056.2	27.2	B3/2500		G2/5000
BVH (80°-90°)	89.4	1.2			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°	413.6	413.6	413.6	413.6	413.6	413.6	413.6	413.6	413.6	413.6	413.6
2.5°	418.6	418.6	417.8	417.8	417.8	417.8	416.9	416.9	417.8	416.9	416.9
5°	428.7	429.6	429.6	428.7	428.7	428.7	428.7	428.7	429.6	428.7	428.7
7.5°	443.9	444.8	444.8	443.9	443.9	443.9	443.9	443.9	444.8	444.8	443.1
10°	462.5	463.4	463.4	462.5	462.5	463.4	463.4	463.4	464.2	464.2	463.4
12.5°	484.5	485.3	486.1	485.3	486.1	486.1	487.0	487.8	487.8	487.8	486.1
15°	509.8	512.3	510.6	510.6	511.5	512.3	512.3	514.8	514.0	513.1	512.3
17.5°	539.3	538.5	538.5	539.3	540.2	539.3	540.2	542.7	541.8	541.0	540.2
20°	567.2	567.2	567.2	566.3	568.0	568.0	568.8	569.7	569.7	571.4	568.8
22.5°	594.2	594.2	593.3	593.3	595.0	595.0	596.7	598.4	598.4	598.4	596.7
25°	619.5	619.5	620.3	619.5	620.3	621.2	622.9	624.6	625.4	625.4	625.4
27.5°	642.3	644.8	644.0	644.8	646.5	648.2	649.9	652.4	654.1	654.9	652.4
30°	671.0	671.0	670.1	671.0	672.7	675.2	678.6	682.8	682.8	683.6	683.6
32.5°	701.4	702.2	700.5	702.2	704.7	708.1	711.5	714.9	716.5	719.9	719.1
35°	741.0	738.5	739.3	741.9	743.6	746.9	751.2	757.1	760.4	762.1	760.4
37.5°	786.6	785.8	787.4	787.4	793.4	796.7	804.3	809.4	811.9	816.1	814.5
40°	844.0	847.4	848.2	850.7	854.1	860.9	869.3	877.8	882.8	886.2	887.0
42.5°	921.6	923.3	920.0	929.2	938.5	942.7	952.9	964.7	972.3	974.8	975.7
45°	1017.0	1017.0	1022.1	1028.0	1039.8	1048.2	1059.2	1078.6	1085.4	1094.7	1094.7
47.5°	1130.9	1134.3	1134.3	1147.8	1157.1	1174.0	1195.1	1211.1	1225.5	1221.3	1235.6
50°	1262.6	1265.1	1274.4	1282.0	1298.1	1317.5	1336.9	1360.5	1381.6	1384.1	1386.7
52.5°	1400.2	1403.6	1411.2	1428.9	1448.3	1470.2	1505.7	1525.9	1546.2	1557.2	1555.5
55°	1558.0	1556.3	1569.0	1582.5	1611.2	1640.7	1670.3	1699.0	1720.1	1735.2	1734.4
57.5°	1723.4	1729.3	1743.7	1760.6	1785.0	1811.2	1846.7	1875.3	1910.0	1919.2	1905.7
60°	1915.9	1910.0	1924.3	1950.5	1972.4	2006.2	2037.4	2074.5	2099.0	2110.0	2105.8
62.5°	2112.5	2107.4	2118.4	2152.2	2178.3	2202.8	2245.9	2286.4	2306.6	2310.8	2303.3
65°	2256.8	2258.5	2276.2	2305.8	2347.1	2384.3	2432.4	2481.3	2513.4	2518.5	2501.6
67.5°	2290.6	2294.0	2318.4	2356.4	2407.9	2469.5	2541.3	2613.8	2668.7	2680.5	2656.0
70°	2212.9	2214.6	2238.3	2281.3	2340.4	2411.3	2500.7	2601.2	2681.4	2711.7	2684.7
72.5°	2053.4	2060.2	2079.6	2115.9	2162.3	2232.4	2318.4	2407.9	2487.2	2526.1	2526.1
75°	1765.6	1780.8	1790.1	1801.9	1842.4	1899.0	1969.0	2039.9	2110.0	2131.9	2070.3
77.5°	1260.1	1234.8	1240.7	1306.5	1297.2	1361.4	1439.0	1489.6	1552.1	1542.8	1454.2
80°	578.1	563.8	596.7	640.6	696.3	739.3	822.9	831.3	903.1	907.3	843.1
82.5°	115.6	121.5	145.2	178.9	222.8	270.9	314.8	351.9	400.9	410.2	380.6
85°	36.3	39.7	49.8	54.9	57.4	65.8	75.1	101.3	116.5	120.7	113.1
87.5°	7.6	11.8	19.4	21.9	22.8	21.9	21.9	21.1	16.9	13.5	16.0
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°	413.6	413.6	413.6	413.6	413.6	413.6	413.6	413.6
2.5°	416.1	416.1	416.9	416.9	416.9	416.1	415.2	416.1
5°	427.9	427.9	427.9	427.9	426.2	426.2	425.4	425.4
7.5°	443.1	442.3	442.3	441.4	440.6	440.6	439.7	440.6
10°	463.4	461.7	460.8	460.0	459.1	459.1	458.3	457.4
12.5°	485.3	484.5	483.6	481.9	481.1	479.4	479.4	479.4
15°	510.6	509.8	508.9	506.4	506.4	503.9	504.7	504.7
17.5°	538.5	536.8	534.2	533.4	532.6	530.0	530.0	530.0
20°	567.2	563.8	562.1	560.4	560.4	557.9	557.0	557.0
22.5°	595.0	591.6	588.3	586.6	584.9	584.0	582.4	581.5
25°	622.9	619.5	616.1	613.6	610.2	608.5	606.8	606.8
27.5°	650.7	647.3	642.3	638.9	635.5	632.1	630.5	631.3
30°	679.4	676.0	671.0	666.8	662.5	659.2	657.5	656.6
32.5°	715.7	711.5	705.6	701.4	693.8	690.4	688.7	689.5
35°	757.9	752.0	747.8	741.0	735.1	730.9	728.4	728.4
37.5°	811.9	806.9	802.6	795.9	787.4	782.4	779.0	781.5
40°	882.0	877.8	869.3	859.2	852.4	848.2	844.8	845.7
42.5°	971.4	963.0	955.4	949.5	939.4	933.5	924.2	927.5
45°	1084.5	1075.2	1067.6	1058.4	1049.1	1037.3	1033.9	1027.1
47.5°	1221.3	1214.5	1197.6	1189.2	1177.4	1160.5	1152.0	1145.3
50°	1372.3	1359.7	1347.9	1326.8	1313.2	1293.8	1286.2	1283.7
52.5°	1542.8	1521.7	1502.3	1482.9	1455.9	1437.3	1422.1	1425.5
55°	1711.6	1687.1	1659.3	1638.2	1617.1	1594.3	1578.3	1569.0
57.5°	1889.7	1862.7	1833.1	1802.8	1785.0	1758.0	1747.9	1742.8
60°	2072.8	2048.4	2018.8	1991.0	1966.5	1935.3	1918.4	1911.6
62.5°	2275.4	2241.6	2206.2	2171.6	2144.6	2121.8	2104.1	2092.3
65°	2461.9	2415.5	2379.2	2335.3	2305.8	2272.9	2250.9	2246.7
67.5°	2601.2	2529.4	2466.1	2409.6	2364.0	2323.5	2295.7	2284.7
70°	2610.5	2511.7	2418.0	2334.5	2267.8	2221.4	2184.2	2169.9
72.5°	2429.8	2307.5	2180.9	2099.0	2028.1	1964.0	1937.8	1931.9
75°	1976.6	1874.5	1769.0	1676.2	1627.2	1595.1	1573.2	1541.1
77.5°	1373.2	1279.5	1222.9	1119.1	1100.6	1074.4	1052.5	1031.4
80°	768.9	687.0	623.7	558.7	519.1	497.1	474.3	461.7
82.5°	345.2	283.6	225.3	174.7	144.3	113.9	85.2	90.3
85°	86.1	72.6	55.7	46.4	42.2	38.8	31.2	27.9
87.5°	16.0	15.2	13.5	13.5	14.3	11.8	6.8	5.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)