

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: P180088

Luminaire Tested: **ICM-E04-LED-E1-5WQ**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P180088
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33675)
Test Lab: INNOVATION CENTER-P3
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: ICM-E04-LED-E1-5WQ
Description: ICON SITE MEDIUM LED LUMINAIRE
(4) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE WIDE
Light Source: (84) 4000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11846.8 lumens
Efficiency: N/A
Efficacy: 121.9 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.67' x L: 1' x H: 0.1')
IES Classification: Type V - Short - Semi-Cutoff
BUG Rating: B4 - 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

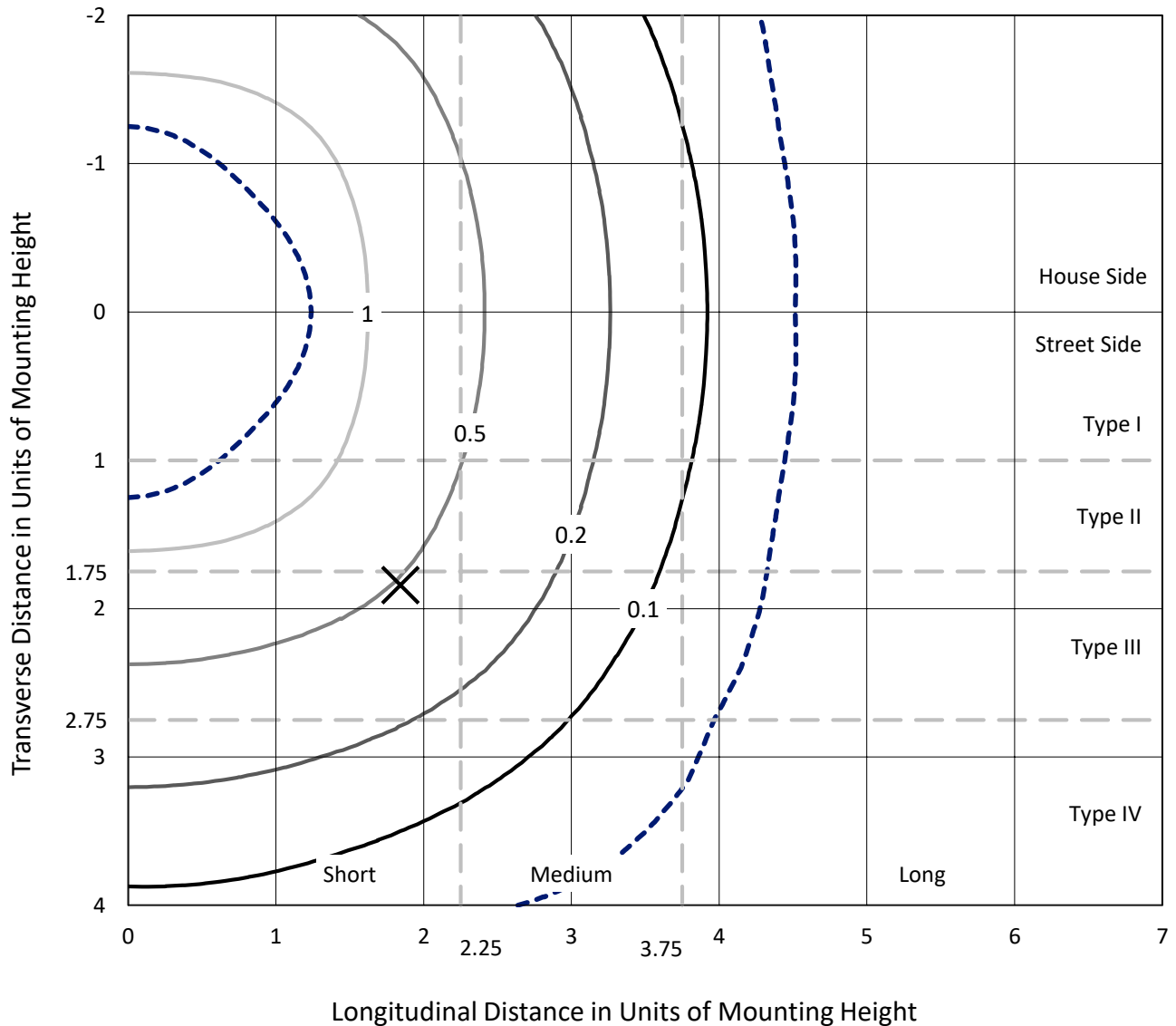


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Iso-Footcandle Lines of Horizontal Illumination

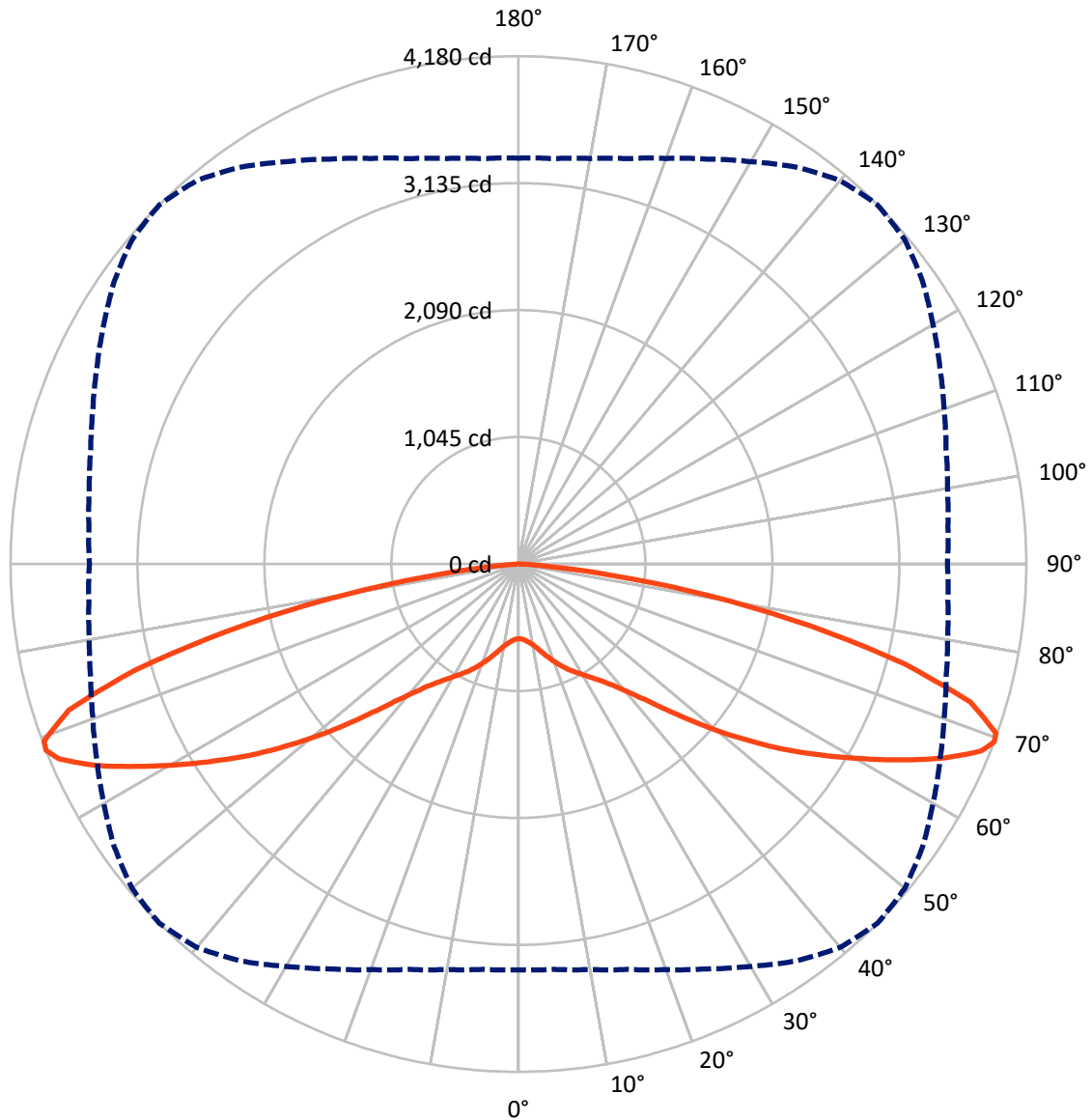
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 1.8 fc
 Type V - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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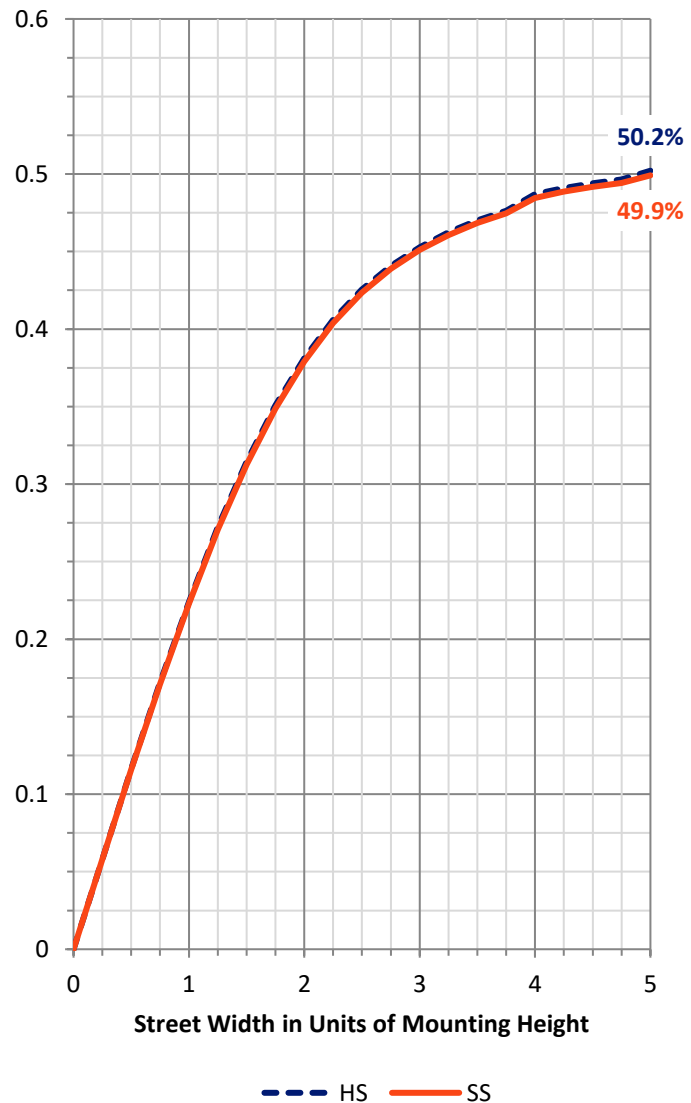
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5923.4	0.0	5923.4
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	5923.4	0.0	5923.4
	% Fixture	50.0	0.0	50.0
Total	Lumens	11846.8	0.0	11846.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	61.8	0.5
10°-20°	218.1	1.8
20°-30°	441.7	3.7
30°-40°	740.5	6.3
40°-50°	1306.2	11.0
50°-60°	2303.5	19.4
60°-70°	3516.8	29.7
70°-80°	2938.7	24.8
80°-90°	319.3	2.7
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°	11846.8	100.0
0°-180°	11846.8	100.0



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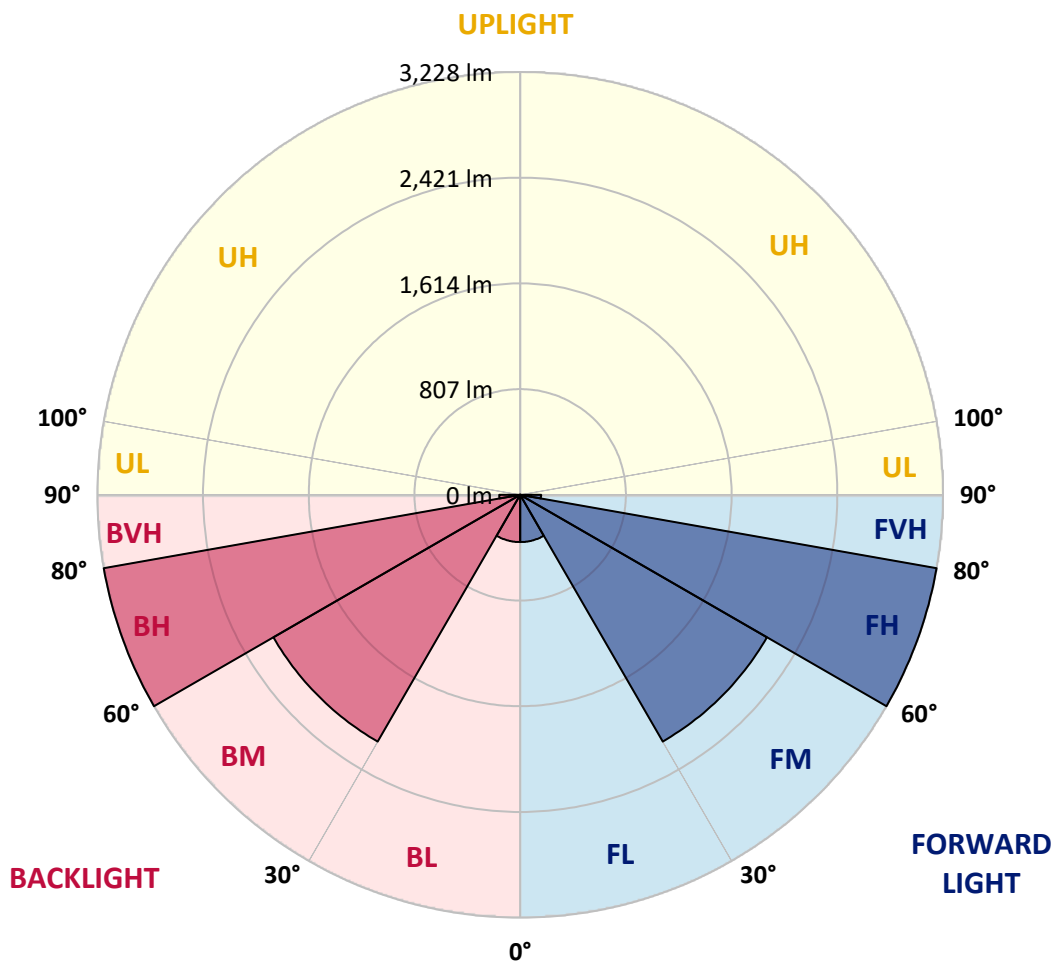
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	360.8	3.0			
FM	(30°-60°)	2175.2	18.4			
FH	(60°-80°)	3227.8	27.2			G2/5000
FVH	(80°-90°)	159.7	1.3			G2/225
BL	(0°-30°)	360.8	3.0	B1/500		
BM	(30°-60°)	2175.2	18.4	B2/2500		
BH	(60°-80°)	3227.8	27.2	B4/5000		G2/5000
BVH	(80°-90°)	159.7	1.3			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	615.2	615.2	615.2	615.2	615.2	615.2	615.2	615.2	615.2	615.2	615.2
2.5°	620.2	621.4	620.2	620.2	620.2	620.2	620.2	618.9	618.9	618.9	620.2
5°	632.6	633.8	632.6	633.8	633.8	633.8	633.8	632.6	632.6	632.6	632.6
7.5°	652.4	652.4	652.4	653.7	652.4	652.4	653.7	652.4	652.4	652.4	652.4
10°	680.9	679.7	679.7	679.7	679.7	679.7	680.9	680.9	680.9	679.7	679.7
12.5°	715.6	714.4	715.6	715.6	716.9	716.9	716.9	716.9	716.9	716.9	715.6
15°	757.9	757.9	757.9	759.1	761.6	761.6	760.3	761.6	761.6	761.6	761.6
17.5°	804.9	807.4	804.9	806.2	807.4	806.2	808.7	810.0	811.2	810.0	806.2
20°	853.3	854.6	854.6	854.6	854.6	857.0	858.3	858.3	862.1	860.7	859.5
22.5°	899.3	901.7	901.7	903.0	903.0	906.7	906.7	906.7	909.1	911.6	909.1
25°	947.6	946.3	946.3	948.8	950.1	955.1	955.1	957.5	961.2	962.5	960.0
27.5°	991.0	989.8	989.8	993.5	994.7	1000.9	1000.9	1005.9	1008.4	1009.6	1007.2
30°	1036.9	1036.9	1035.6	1039.4	1043.1	1048.1	1050.5	1055.5	1059.3	1060.5	1058.0
32.5°	1091.4	1089.0	1090.2	1092.8	1095.2	1100.2	1103.9	1110.1	1115.1	1116.3	1113.8
35°	1153.5	1149.8	1151.0	1153.5	1157.2	1164.7	1170.9	1174.6	1182.1	1184.5	1179.5
37.5°	1221.7	1223.0	1221.7	1227.9	1234.1	1242.8	1250.2	1255.2	1262.6	1266.3	1262.6
40°	1318.4	1314.7	1318.4	1324.7	1334.6	1345.8	1360.7	1364.4	1371.8	1379.3	1370.5
42.5°	1443.7	1441.2	1450.0	1454.9	1466.1	1478.4	1497.0	1507.0	1518.1	1523.1	1515.6
45°	1607.5	1607.5	1617.4	1618.6	1636.0	1652.1	1678.1	1690.5	1711.6	1711.6	1711.6
47.5°	1788.6	1796.0	1802.2	1814.6	1827.0	1856.8	1882.8	1910.1	1930.0	1932.4	1928.7
50°	1975.8	1983.3	2001.9	2019.3	2046.5	2083.7	2112.3	2148.2	2165.6	2180.5	2175.5
52.5°	2183.0	2184.2	2206.5	2228.9	2268.6	2309.5	2355.4	2392.6	2423.5	2437.2	2426.1
55°	2410.0	2412.4	2432.3	2455.8	2500.5	2547.6	2604.7	2643.1	2682.8	2707.6	2689.0
57.5°	2655.6	2656.8	2676.6	2705.1	2758.4	2805.6	2860.2	2914.7	2951.9	2974.3	2961.9
60°	2927.2	2933.3	2948.2	2984.2	3035.1	3084.7	3139.3	3187.6	3231.0	3254.6	3242.2
62.5°	3217.4	3223.6	3244.7	3273.2	3317.9	3372.4	3424.5	3486.5	3522.5	3548.6	3530.0
65°	3412.1	3423.3	3456.8	3495.2	3561.0	3631.7	3692.4	3776.8	3820.2	3851.2	3833.8
67.5°	3424.5	3430.7	3471.6	3530.0	3618.0	3724.7	3848.7	3980.2	4065.8	4106.7	4077.0
69°	3340.2	3348.9	3388.6	3454.3	3552.3	3676.3	3823.9	3987.7	4119.1	4179.8	4151.4
70°	3244.7	3263.3	3306.7	3378.6	3474.2	3604.4	3757.0	3931.8	4085.6	4168.7	4147.7
72.5°	3043.7	3048.7	3077.2	3134.3	3207.5	3315.4	3459.3	3624.2	3770.5	3889.6	3907.0
75°	2701.4	2717.5	2738.6	2777.0	2814.2	2892.4	2989.1	3102.1	3187.6	3279.4	3283.1
77.5°	2041.6	2090.0	2106.1	2114.7	2130.9	2192.9	2277.2	2375.2	2445.9	2460.8	2458.3
80°	916.6	981.1	996.0	1066.7	1110.1	1213.0	1342.1	1492.1	1592.6	1603.7	1576.5
82.5°	179.8	192.3	224.5	280.3	382.0	442.8	527.2	632.6	729.3	785.1	751.6
85°	59.5	63.3	73.2	80.7	93.0	105.4	127.7	158.8	197.2	218.3	194.7
87.5°	23.5	23.5	27.3	29.8	32.3	32.3	32.3	29.8	28.6	23.5	21.1
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°	615.2	615.2	615.2	615.2	615.2	615.2	615.2	615.2
2.5°	618.9	618.9	618.9	618.9	618.9	618.9	618.9	618.9
5°	632.6	631.4	631.4	630.1	630.1	630.1	630.1	630.1
7.5°	651.2	650.0	648.7	650.0	648.7	648.7	648.7	648.7
10°	679.7	677.2	676.0	674.7	674.7	674.7	673.5	673.5
12.5°	713.2	713.2	711.9	710.7	708.2	709.5	708.2	705.8
15°	759.1	756.6	755.4	754.1	751.6	751.6	751.6	750.4
17.5°	804.9	802.5	802.5	798.8	797.5	797.5	797.5	798.8
20°	855.8	852.1	849.6	847.2	844.7	845.9	843.4	845.9
22.5°	906.7	901.7	899.3	895.5	891.8	891.8	890.5	888.1
25°	956.3	950.1	947.6	943.9	938.9	938.9	936.5	934.0
27.5°	1003.4	997.2	994.7	987.3	982.3	981.1	978.6	977.4
30°	1055.5	1048.1	1044.4	1036.9	1029.5	1028.2	1024.5	1024.5
32.5°	1110.1	1102.6	1100.2	1089.0	1082.8	1082.8	1080.3	1077.9
35°	1178.3	1167.2	1164.7	1153.5	1144.8	1144.8	1142.3	1143.5
37.5°	1258.9	1250.2	1241.6	1232.8	1223.0	1221.7	1219.3	1216.8
40°	1366.8	1356.9	1347.0	1334.6	1325.9	1323.4	1319.7	1318.4
42.5°	1510.7	1500.8	1480.9	1471.0	1462.3	1454.9	1453.7	1452.4
45°	1694.2	1681.9	1668.2	1649.6	1638.4	1622.3	1619.8	1613.7
47.5°	1915.1	1891.5	1867.9	1851.8	1834.4	1815.8	1812.1	1802.2
50°	2149.5	2130.9	2091.2	2065.1	2037.9	2019.3	2006.8	2003.1
52.5°	2401.2	2366.5	2326.8	2292.1	2252.4	2227.6	2205.3	2199.1
55°	2664.2	2614.6	2564.9	2524.0	2484.4	2454.6	2433.5	2423.5
57.5°	2927.2	2872.6	2818.0	2773.3	2739.8	2701.4	2680.3	2675.4
60°	3201.2	3149.1	3093.3	3048.7	3007.7	2974.3	2961.9	2938.3
62.5°	3491.5	3437.0	3384.9	3341.4	3289.3	3265.8	3244.7	3231.0
65°	3776.8	3713.5	3647.7	3601.9	3549.8	3516.3	3490.3	3471.6
67.5°	3997.5	3902.1	3814.0	3737.0	3666.3	3614.3	3580.8	3563.5
69°	4059.6	3940.5	3827.7	3727.2	3644.0	3585.8	3548.6	3531.2
70°	4052.1	3920.7	3796.6	3686.3	3595.6	3533.7	3497.7	3465.4
72.5°	3822.6	3702.3	3564.7	3444.4	3362.5	3303.0	3267.0	3249.6
75°	3262.1	3181.4	3082.2	2989.1	2929.6	2894.9	2850.2	2851.5
77.5°	2375.2	2377.7	2310.7	2215.2	2148.2	2135.8	2116.0	2096.1
80°	1473.5	1355.6	1278.8	1175.8	1100.2	1034.4	1005.9	943.9
82.5°	679.7	530.9	411.8	311.4	239.4	187.3	163.7	134.0
85°	151.3	115.3	95.5	76.9	65.8	60.7	49.6	45.9
87.5°	21.1	18.6	17.4	16.1	13.7	10.0	7.4	6.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)