

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: P180096

Luminaire Tested: **ICM-E05-LED-E1-5WQ-8030**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P180096
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-E05-LED-E1-5WQ-8030
Description: ICON SITE MEDIUM LED LUMINAIRE
(5) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE WIDE
Light Source: (105) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12498.2 lumens
Efficiency: N/A
Efficacy: 98.2 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.83' x L: 1' x H: 0.1')
IES Classification: Type V - Short - Semi-Cutoff
BUG Rating: B4 - U0 - G2

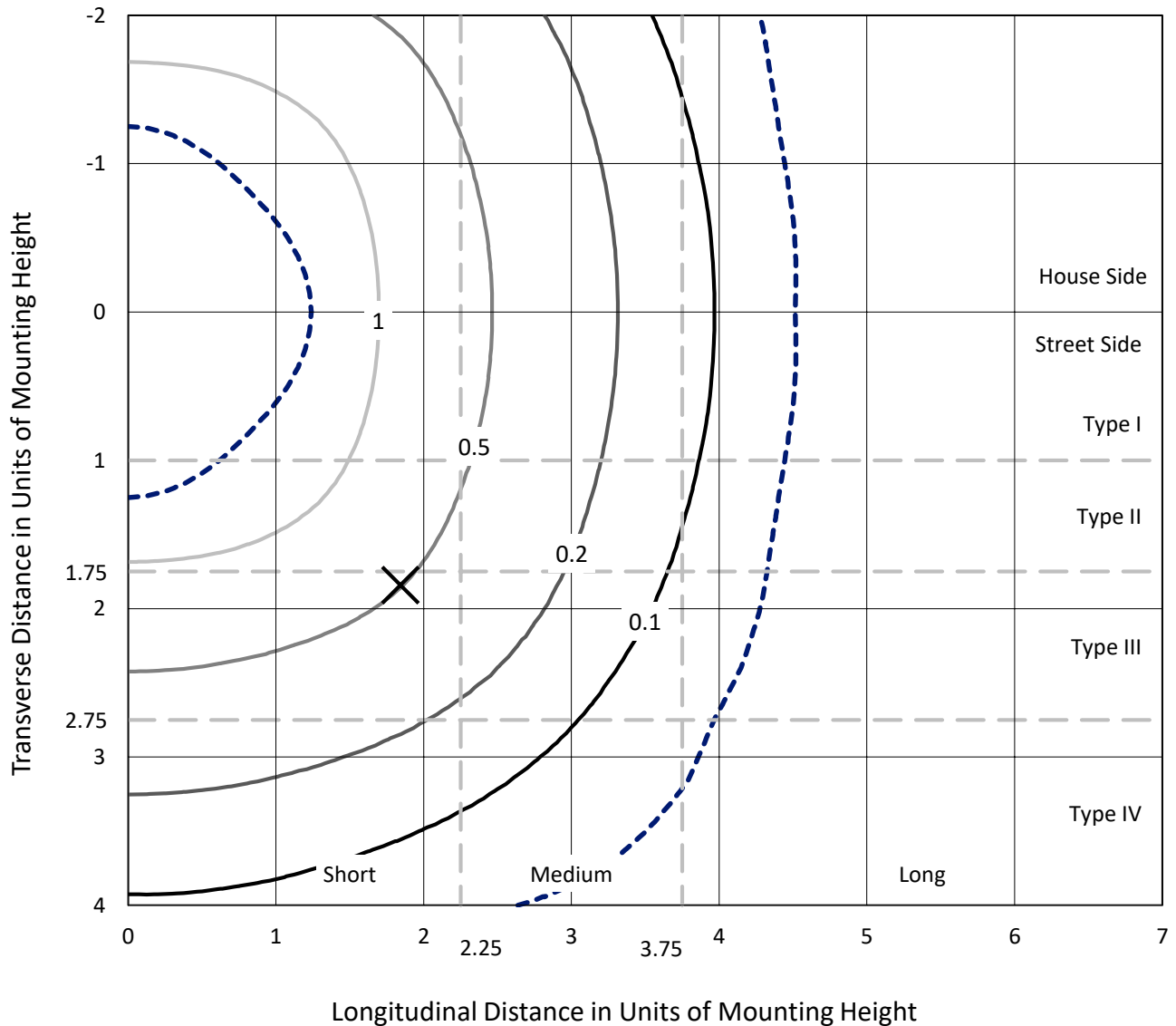
Input Watts (W): 127.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

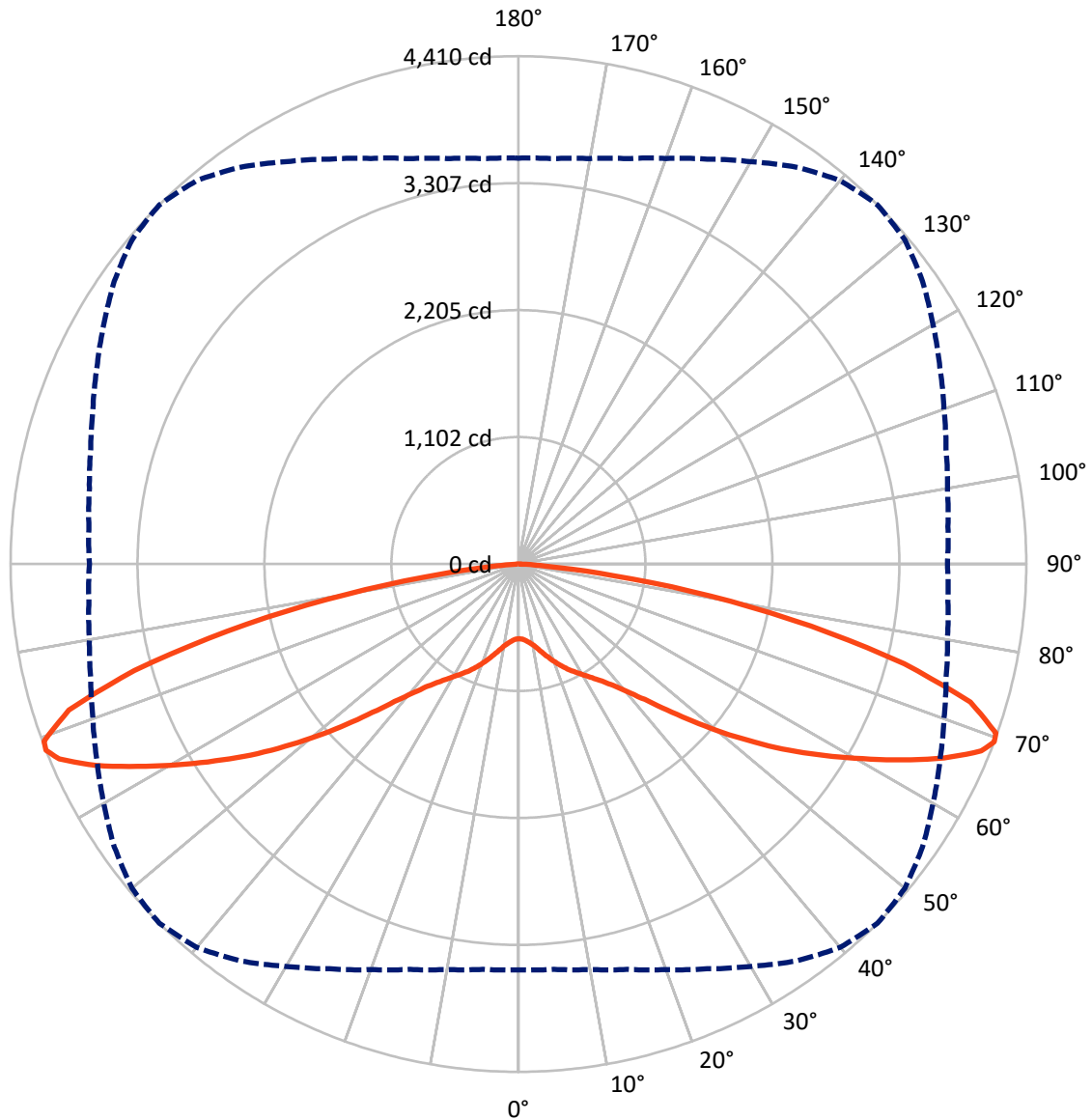
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 1.9 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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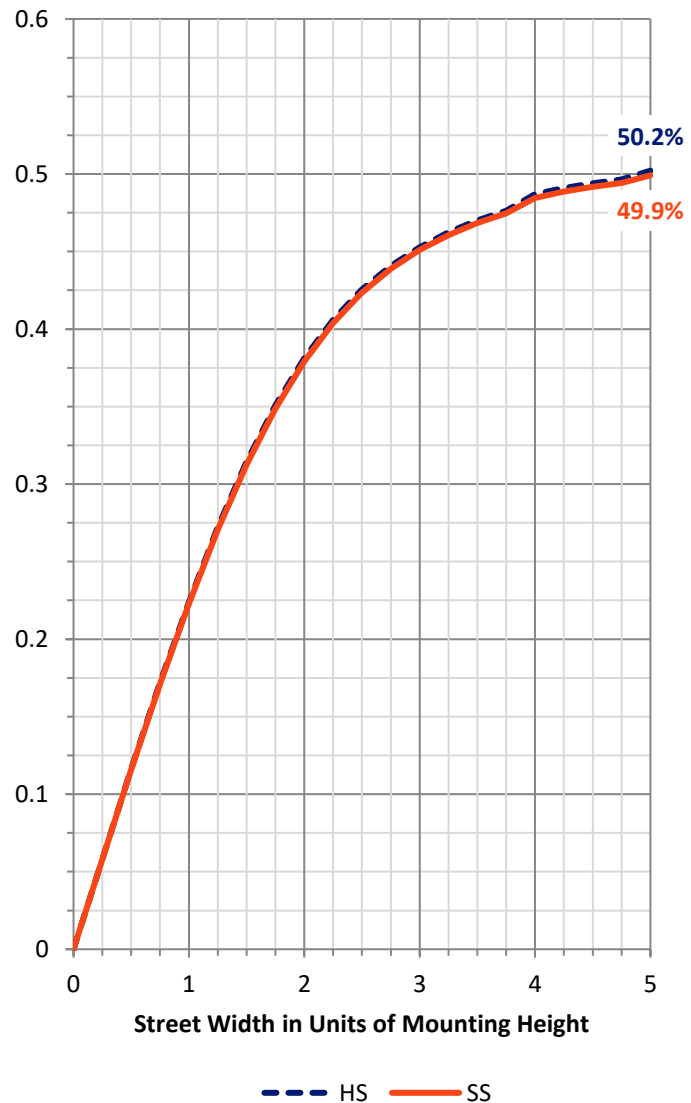
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6249.1	0.0	6249.1
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	6249.1	0.0	6249.1
	% Fixture	50.0	0.0	50.0
Total	Lumens	12498.2	0.0	12498.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	65.2	0.5
10°-20°	230.1	1.8
20°-30°	466.0	3.7
30°-40°	781.3	6.3
40°-50°	1378.1	11.0
50°-60°	2430.2	19.4
60°-70°	3710.2	29.7
70°-80°	3100.3	24.8
80°-90°	336.9	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°	12498.2	100.0
0°-180°	12498.2	100.0



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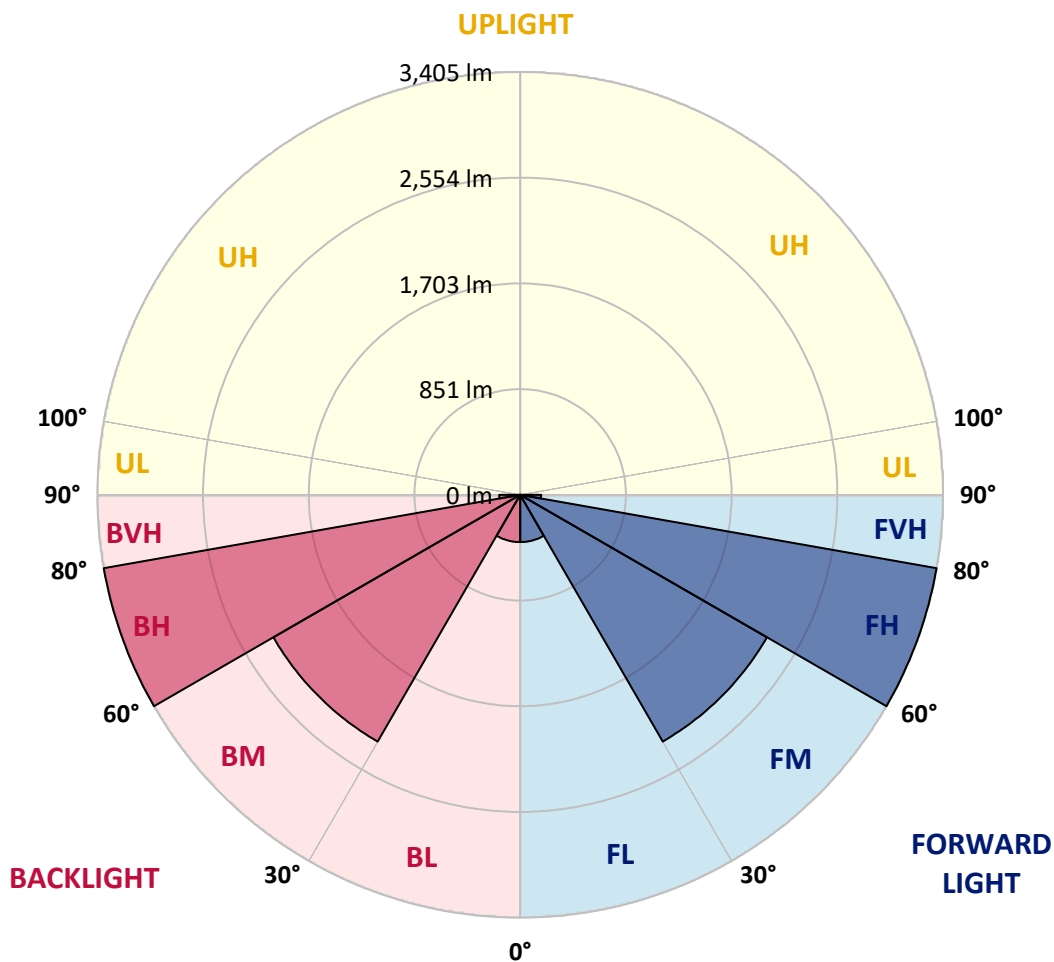
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	380.6	3.0			
FM	(30°-60°)	2294.8	18.4			
FH	(60°-80°)	3405.2	27.2			G2/5000
FVH	(80°-90°)	168.4	1.3			G2/225
BL	(0°-30°)	380.6	3.0	B1/500		
BM	(30°-60°)	2294.8	18.4	B2/2500		
BH	(60°-80°)	3405.2	27.2	B4/5000		G2/5000
BVH	(80°-90°)	168.4	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°	649.0	649.0	649.0	649.0	649.0	649.0	649.0	649.0	649.0	649.0	649.0
2.5°	654.2	655.5	654.2	654.2	654.2	654.2	654.2	652.9	652.9	652.9	654.2
5°	667.4	668.7	667.4	668.7	668.7	668.7	668.7	667.4	667.4	667.4	667.4
7.5°	688.3	688.3	688.3	689.6	688.3	688.3	689.6	688.3	688.3	688.3	688.3
10°	718.4	717.0	717.0	717.0	717.0	717.0	718.4	718.4	718.4	717.0	717.0
12.5°	755.0	753.7	755.0	755.0	756.3	756.3	756.3	756.3	756.3	756.3	755.0
15°	799.5	799.5	799.5	800.8	803.4	803.4	802.1	803.4	803.4	803.4	803.4
17.5°	849.2	851.8	849.2	850.5	851.8	850.5	853.1	854.4	855.8	854.4	850.5
20°	900.3	901.6	901.6	901.6	901.6	904.2	905.5	905.5	909.4	908.1	906.8
22.5°	948.7	951.3	951.3	952.6	952.6	956.6	956.6	956.6	959.2	961.8	959.2
25°	999.7	998.4	998.4	1001.0	1002.3	1007.5	1007.5	1010.1	1014.1	1015.4	1012.8
27.5°	1045.5	1044.2	1044.2	1048.1	1049.4	1056.0	1056.0	1061.2	1063.8	1065.1	1062.5
30°	1094.0	1094.0	1092.7	1096.6	1100.5	1105.7	1108.3	1113.6	1117.5	1118.8	1116.2
32.5°	1151.5	1148.8	1150.1	1152.8	1155.4	1160.7	1164.6	1171.2	1176.4	1177.7	1175.1
35°	1216.9	1213.0	1214.3	1216.9	1220.8	1228.7	1235.3	1239.2	1247.0	1249.7	1244.4
37.5°	1288.9	1290.2	1288.9	1295.4	1302.0	1311.2	1319.0	1324.2	1332.1	1336.0	1332.1
40°	1391.0	1387.1	1391.0	1397.5	1408.0	1419.7	1435.5	1439.4	1447.3	1455.1	1445.9
42.5°	1523.1	1520.5	1529.7	1534.9	1546.7	1559.7	1579.4	1589.9	1601.6	1606.9	1599.0
45°	1695.8	1695.8	1706.3	1707.6	1726.0	1743.0	1770.4	1783.5	1805.8	1805.8	1805.8
47.5°	1886.9	1894.7	1901.3	1914.3	1927.5	1958.9	1986.3	2015.1	2036.0	2038.7	2034.7
50°	2084.5	2092.3	2111.9	2130.2	2159.1	2198.3	2228.4	2266.3	2284.7	2300.4	2295.2
52.5°	2303.0	2304.3	2327.8	2351.5	2393.3	2436.5	2484.9	2524.1	2556.9	2571.3	2559.5
55°	2542.4	2545.0	2566.0	2590.9	2638.0	2687.7	2747.9	2788.5	2830.3	2856.5	2836.9
57.5°	2801.5	2802.8	2823.8	2853.9	2910.2	2959.8	3017.4	3075.0	3114.3	3137.9	3124.8
60°	3088.1	3094.6	3110.3	3148.3	3202.0	3254.3	3311.8	3362.9	3408.7	3433.6	3420.5
62.5°	3394.3	3400.9	3423.1	3453.2	3500.3	3557.9	3612.9	3678.3	3716.2	3743.7	3724.0
65°	3599.7	3611.6	3646.8	3687.4	3756.8	3831.4	3895.5	3984.5	4030.3	4063.0	4044.7
67.5°	3612.9	3619.4	3662.5	3724.0	3817.0	3929.5	4060.3	4199.0	4289.3	4332.5	4301.1
69°	3523.8	3533.0	3574.9	3644.2	3747.7	3878.4	4034.2	4206.9	4345.6	4409.7	4379.7
70°	3423.1	3442.7	3488.5	3564.4	3665.1	3802.5	3963.5	4148.0	4310.3	4398.0	4375.7
72.5°	3211.1	3216.3	3246.4	3306.6	3383.8	3497.7	3649.5	3823.5	3977.9	4103.6	4121.9
75°	2850.0	2867.0	2889.2	2929.8	2969.0	3051.5	3153.5	3272.6	3362.9	3459.7	3463.6
77.5°	2153.8	2204.9	2221.9	2231.0	2248.0	2313.5	2402.4	2505.8	2580.4	2596.1	2593.5
80°	967.0	1035.1	1050.7	1125.3	1171.2	1279.7	1415.8	1574.1	1680.1	1691.9	1663.2
82.5°	189.8	202.8	236.8	295.7	403.0	467.2	556.1	667.4	769.4	828.3	792.9
85°	62.8	66.7	77.2	85.0	98.1	111.3	134.8	167.5	208.1	230.3	205.4
87.5°	24.8	24.8	28.7	31.4	34.0	34.0	34.0	31.4	30.1	24.8	22.2
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°	649.0	649.0	649.0	649.0	649.0	649.0	649.0	649.0
2.5°	652.9	652.9	652.9	652.9	652.9	652.9	652.9	652.9
5°	667.4	666.1	666.1	664.7	664.7	664.7	664.7	664.7
7.5°	687.0	685.7	684.4	685.7	684.4	684.4	684.4	684.4
10°	717.0	714.4	713.1	711.8	711.8	711.8	710.5	710.5
12.5°	752.4	752.4	751.1	749.8	747.2	748.5	747.2	744.6
15°	800.8	798.2	796.9	795.5	792.9	792.9	792.9	791.6
17.5°	849.2	846.6	846.6	842.7	841.4	841.4	841.4	842.7
20°	902.9	899.0	896.4	893.7	891.1	892.4	889.8	892.4
22.5°	956.6	951.3	948.7	944.7	940.8	940.8	939.5	936.9
25°	1008.8	1002.3	999.7	995.8	990.5	990.5	987.9	985.3
27.5°	1058.6	1052.0	1049.4	1041.6	1036.4	1035.1	1032.4	1031.1
30°	1113.6	1105.7	1101.8	1094.0	1086.1	1084.8	1080.8	1080.8
32.5°	1171.2	1163.3	1160.7	1148.8	1142.3	1142.3	1139.7	1137.1
35°	1243.1	1231.4	1228.7	1216.9	1207.7	1207.7	1205.1	1206.4
37.5°	1328.2	1319.0	1309.9	1300.7	1290.2	1288.9	1286.2	1283.6
40°	1442.0	1431.5	1421.0	1408.0	1398.8	1396.2	1392.3	1391.0
42.5°	1593.8	1583.3	1562.3	1551.9	1542.7	1534.9	1533.6	1532.3
45°	1787.5	1774.3	1759.9	1740.3	1728.6	1711.5	1708.9	1702.4
47.5°	2020.4	1995.5	1970.6	1953.6	1935.3	1915.6	1911.7	1901.3
50°	2267.6	2248.0	2206.2	2178.7	2149.9	2130.2	2117.2	2113.2
52.5°	2533.3	2496.7	2454.8	2418.2	2376.3	2350.1	2326.5	2320.0
55°	2810.7	2758.3	2706.1	2662.8	2620.9	2589.6	2567.4	2556.9
57.5°	3088.1	3030.5	2972.9	2925.9	2890.5	2850.0	2827.7	2822.4
60°	3377.3	3322.3	3263.5	3216.3	3173.1	3137.9	3124.8	3099.9
62.5°	3683.5	3625.9	3571.0	3525.1	3470.2	3445.3	3423.1	3408.7
65°	3984.5	3917.7	3848.4	3799.9	3745.0	3709.7	3682.2	3662.5
67.5°	4217.3	4116.6	4023.7	3942.5	3868.0	3813.0	3777.7	3759.4
69°	4282.8	4157.1	4038.1	3932.1	3844.4	3782.9	3743.7	3725.3
70°	4274.9	4136.2	4005.4	3889.0	3793.4	3728.0	3690.1	3656.0
72.5°	4032.9	3906.0	3760.7	3633.8	3547.4	3484.6	3446.6	3428.3
75°	3441.4	3356.4	3251.6	3153.5	3090.7	3054.1	3007.0	3008.3
77.5°	2505.8	2508.5	2437.8	2337.0	2266.3	2253.3	2232.3	2211.4
80°	1554.5	1430.2	1349.1	1240.5	1160.7	1091.3	1061.2	995.8
82.5°	717.0	560.0	434.4	328.5	252.6	197.6	172.7	141.3
85°	159.6	121.7	100.7	81.1	69.4	64.1	52.4	48.4
87.5°	22.2	19.6	18.3	17.0	14.4	10.5	7.8	6.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)